AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
One (1)	See Block 16C	See Page 2	

6. ISSUED BY	7. ADMINISTERED BY *(If other than Item 6)*
NASA's Goddard Space Flight Center Space Sciences Procurement Office, Code 216 Greenbelt, MD 20771	Loren M. Kruger Contract Specialist Code 216

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
Science Systems and Applications, Inc. Attn: Mr. Anoop Mehta 5900 Princess Garden Parkway, Suite 300 Lanham, MD 20706		9B. DATED *(SEE ITEM 11)*:
	X	10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220
CODE: / FACILITY CODE:		10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 2

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification, FAR Clause 52.232-22, Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to provide $3,549,818 in additional funding for continued performance under this contract.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Leigh Anne Giraldi Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY: Leigh Anne Giraldi (Signature of Contracting Officer)	16C. DATE SIGNED 12/18/02

NSN 7540-01-152-8070 STANDARD FORM 30 (REV. 10-83)

FILE COPY

1) Revise Clause B.4 – Contract Funding as follows:

	FROM (Basic)	BY	TO
Estimated Cost	$5,149,729	$3,286,869	$8,436,598
Award Fee (8%)	$411,979	$262,949	$674,928
TOTAL CPAF	$5,561,708	$3,549,818	$9,111,526

In accordance with the Contractor's electronic mail message dated December 18, 2000, the above funding carries the period of allotment through February 15, 2000.

2) All other terms and conditions remain unchanged.

3) See attached pages for the Accounting and Appropriation Data.

NAS5-00220
Modification: One (001)
B/NC: 203 PPC: KX

Revise the Acounting and Appropriation Data as follows:

PCN		JON	APPN	BLI	OC	AMT
423-03089-000A	(1C)	423-428-16-01-01	801/20110(01)	A501	2550	$200,000
423-03089-000B	(1C)	423-428-37-01-02	801/20110(01)	A501	2550	$150,000
423-03099-000A	(1C)	423-428-45-22-02	801/20110(01)	A701	2550	$73,000
423-03100-000A	(1C)	423-428-45-22-04	801/20110(01)	A701	2550	$100,000
423-03101-000A	(1C)	423-428-45-22-06	801/20110(01)	A701	2550	$75,000
474-04813-000A	(1C)	574-359-01-21-78	801/20110(01)	B401	2529	$30,000
547-05870-000A	(1C)	547-992-62-03-05	801/20110(01)	A501	2550	$425,098
552-06029-000A	(1C)	552-632-83-01-02	800/10110(00)	A501	2550	$4,902
552-06029-000B	(1C)	552-632-84-01-01	800/10110(00)	A501	2550	$782
552-06030-000A	(1C)	552-757-01-01-01	801/20110(01)	A501	2550	$14,315
660-07963-000A	(1C)	667-399-22-12-78	801/20110(01)	B401	2529	$9,000
660-07963-000B	(1C)	662-399-35-01-78	801/20110(01)	B401	2529	$21,000
660-07963-000C	(1C)	667-399-22-12-78	801/20110(01)	B401	2529	$45,000
660-07963-000D	(1C)	667-399-22-14-78	801/20110(01)	B401	2529	$15,000
660-07963-000E	(1C)	662-399-23-01-78	801/20110(01)	B401	2529	$126,000
660-07964-000A	(1C)	661-740-50-01-03	801/20110(01)	A701	2550	$18,000
660-07964-000B	(1C)	661-755-09-01-01	801/20110(01)	A701	2550	$39,000
660-07964-000C	(1C)	661-785-20-33-03	801/20110(01)	A701	2550	$55,500
660-07965-000A	(1C)	667-399-50-01-18	801/20110(01)	A701	2550	$20,000
660-07965-000B	(1C)	667-399-33-01-18	801/20110(01)	A701	2550	$56,000
660-07966-000A	(1C)	662-399-35-01-01	801/20110(01)	A701	2550	$84,000
660-07966-000B	(1C)	662-399-33-01-01	801/20110(01)	A701	2550	$50,000
740-09716-000A	(1C)	743-740-50-14-03	801/20110(01)	A501	2550	$1,900
810-10168-000A	(1C)	810-879-85-85-01	801/20110(01)	A200	2550	$15,000
900-10814-006A	(1C)	900-631-30-01-02	801/20110(01)	A501	2590	$110,000
902-10956-000A	(1C)	902-258-90-30-78	801/20110(01)	B401	2529	$100,000
902-10956-000B	(1C)	902-359-02-01-78	801/20110(01)	B401	2529	$79,000

NAS5-00220
Modification: One (001)
B/NC: 203 PPC: KX

Revise the Acounting and Appropriation Data as follows:

PCN		JON	APPN	BLI	OC	AMT
902-10956-000C	(1C)	902-665-15-11-78	801/20110(01)	B401	2529	$190,000
902-10961-000A	(1C)	902-613-09-09-78	801/20110(01)	B401	2529	$100,000
902-10961-000B	(1C)	902-428-83-01-78	801/20110(01)	B401	2529	$130,000
902-10962-000A	(1C)	902-747-20-00-78	800/10110(00)	B401	2529	$275,000
904-10793-000A	(1C)	904-229-01-04-78	801/20110(01)	B405	2529	$30,000
904-10794-006A	(1C)	904-291-05-01-02	801/20110(01)	A501	2590	$225,000
910-11170-004A	(1C)	910-665-14-01-78	800/10110(00)	B401	2529	$4,421
910-11170-007A	(1C)	910-665-14-01-78	801/20110(01)	B401	2529	$350,000
915-11753-000A	(1C)	915-624-06-81-10	800/10110(00)	A701	2550	$30,591
923-12568-000A	(1C)	923-609-01-02-01	800/10110(00)	A501	2590	$39,908
923-12568-000B	(1C)	923-621-82-80-01	800/10110(00)	A501	2590	$48,931
930-13193-001A	(1C)	933-370-20-03-78	800/10110(00)	B401	2529	$2,370
930-13193-002A	(1C)	933-370-20-03-78	800/10110(00)	B401	2529	$100
932-12920-000A	(1C)	931-656-75-01-78	801/20110(01)	B402	2529	$100,000
974-14127-000A	(1C)	974-621-30-04-78	801/20110(01)	B401	2529	$50,000
						$3,493,818

The following funding which was deobligated under Mod. 160 of STX/NAS5-32350, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
916-61923-000A	(1C)	916-359-02-01-78	800/10110(00)	B4-01	91-2529	$56,000

As a result of the above, the total funds obligated to this contract under Mod. 001 is $3,549,818 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Two (2)	See Block 16C	See Page 2	

6. ISSUED BY	7. ADMINISTERED BY *(If other than Item 6)*
NASA's Goddard Space Flight Center Space Sciences Procurement Office, Code 216 Greenbelt, MD 20771	Loren M. Kruger Contract Specialist Code 216

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
Science Systems and Applications, Inc. Attn: Mr. Anoop Mehta 5900 Princess Garden Parkway, Suite 300 Lanham, MD 20706		9B. DATED *(SEE ITEM 11)*:
	X	10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220
CODE: / FACILITY CODE:		10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 3 & 4

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification, FAR Clause 52.232-22, Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to provide $3,283,325 in additional funding for continued performance under this contract.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Leigh Anne Giraldi Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Leigh Anne Giraldi (Signature of Contracting Officer)	16C. DATE SIGNED 1/17/01

1) Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 1)	BY	TO
Estimated Cost	$8,436,598	$3,040,116	$11,476,714
Award Fee (8%)	$674,928	$243,209	$918,137
TOTAL CPAF	$9,111,526	$3,283,325	$12,394,851

In accordance with the Contractor's electronic mail message dated January 16, 2001, the above funding carries the period of allotment through March 15, 2001.

2) All other terms and conditions remain unchanged.

3) See attached pages for the Accounting and Appropriation Data.

B/NC: 203 PPC: KX

OBLIGATE:

PCN	JON	APPN	BLI	OC	AMT
423-03105-000A	(1C) 423-428-45-12-01	801/20110(01)	A701	2550	$400,000.00
423-03110-000A	(1C) 423-428-50-40-78	801/20110(01)	A501	2529	$159,943.00
423-03116-000A	(1C) 423-428-45-22-08	801/20110(01)	A701	2550	$150,000.00
690-09140-000A	(1C) 690-406-04-04-25	800/10110(00)	A501	2550	$13.00
690-09140-000D	(1C) 690-896-50-08-25	800/10110(00)	A501	2550	$15.00
690-09140-000E	(1C) 691-624-03-03-25	800/10110(00)	A501	2550	$511.00
690-09140-000F	(1C) 691-839-88-01-25	800/10110(00)	A501	2550	$44.00
690-09140-000G	(1C) 692-370-16-03-25	800/10110(00)	A501	2550	$553.00
690-09140-000H	(1C) 693-274-31-00-25	800/10110(00)	A501	2550	$181.00
690-09140-000I	(1C) 693-274-70-00-25	800/10110(00)	A501	2550	$180.00
690-09140-000J	(1C) 694-315-40-11-25	800/10110(00)	A501	2550	$27.00
740-09719-000A	(1C) 743-740-50-14-03	801/20110(01)	A501	2550	$35,000.00
904-10794-008A	(1C) 904-291-05-01-02	801/20110(01)	A501	2590	$200,000.00
915-11754-000A	(1C) 915-730-10-60-14	800/10110(00)	A701	2550	$75,000.00
916-11887-000A	(1C) 916-622-57-01-78	800/10110(00)	B402	2529	$19,170.00
916-11900-000A	(1C) 916-359-02-01-78	801/20110(01)	B401	2529	$144,000.00
916-11903-000A	(1C) 916-229-07-27-78	801/20110(01)	B402	2529	$351,090.00
923-12614-000A	(1C) 923-622-94-07-23	801/20110(01)	A501	2590	$73,623.00
923-12614-000B	(1C) 923-291-05-14-15	801/20110(01)	A501	2590	$1,600.00
923-12614-000C	(1C) 923-291-07-05-01	801/20110(01)	A501	2590	$30,000.00
923-12614-000D	(1C) 923-622-94-05-01	801/20110(01)	A501	2590	$586,424.00
923-12586-003A	(1C) 923-622-94-05-01	801/20110(01)	A501	2590	$300,000.00
923-12586-004A	(1C) 923-622-94-05-01	800/10110(00)	A501	2590	$2,182.00
923-12586-004B	(1C) 923-609-01-02-01	800/10110(00)	A501	2590	$978.00
930-13193-004A	(1C) 930-625-20-61-78	801/20110(01)	B401	2529	$42,348.00
932-12921-000A	(1C) 932-613-05-05-78	801/20110(01)	B401	2529	$79,170.00
932-12921-000B	(1C) 932-631-30-01-78	801/20110(01)	B401	2529	$150,000.00
934-13060-000A	(1C) 934-625-20-12-78	801/20110(01)	B401	2529	$35,000.00
934-13060-000B	(1C) 934-625-20-31-78	801/20110(01)	B401	2529	$35,000.00
934-13060-000C	(1C) 934-625-20-61-78	801/20110(01)	B401	2529	$35,000.00
971-13887-000A	(1C) 971-229-04-15-78	801/20110(01)	B401	2529	$25,000.00
971-13888-000A	(1C) 971-622-82-01-78	800/10110(00)	B401	2529	$19,330.00
971-13888-001A	(1C) 971-229-04-15-78	801/20110(01)	B401	2529	$25,000.00
975-14226-000A	(1C) 975-665-15-13-78	801/20110(01)	B401	2529	$44,100.00
975-14227-000A	(1C) 975-622-96-01-01	800/10110(00)	A501	2590	$33,501.00
					$3,053,983.00

B/NC: 203 PPC: KX

The following funding which was deobligated under Mod. 161 of STX/NAS5-32350, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
740-59640-000A	(1C)	552-263-10-83-05	800/10110(00)	A5-01	2590	$34,700
552-55847-000A	(1C)	552-263-10-83-05	800/10110(00)	A5-01	2590	$25,000
910-62001-011A	(1C)	910-665-14-01-78	800/10110(00)	B4-04	2529	$15,391
910-11171-001A	(1C)	910-419-04-20-78	800/10110(00)	B4-07	2529	$5,084
904-10794-005A	(1C)	904-291-05-01-02	801/20110(01)	A5-01	2590	$12,197
916-61985-000A	(1C)	916-229-07-27-78	800/10110(00)	B4-03	2529	$5,690
923-62637-001B	(1C)	923-291-05-14-02	800/10110(00)	A5-01	2590	$18,844
923-12587-000A	(1C)	923-621-92-01-78	801/20110(01)	B4-02	2529	$10,958
923-62610-005A	(1C)	923-621-92-01-78	800/10110(00)	B4-01	2529	$7,727
923-62637-007A	(1C)	923-622-94-03-01	800/10110(00)	A5-01	2590	$38,569
923-62637-008B	(1C)	923-622-94-03-01	800/10110(00)	A5-01	2590	$2,805
923-62637-008A	(1C)	923-291-07-53-03	800/10110(00)	A5-01	2590	$25,007
923-62637-008E	(1C)	923-622-01-02-15	800/10110(00)	A5-01	2590	$2,478
923-12587-001A	(1C)	923-622-94-05-01	800/10110(00)	A5-01	2590	$4,386
915-61764-000A	(1C)	915-730-10-60-78	800/10110(00)	B402	2529	$91,274
915-61779-000C	(1C)	915-624-06-81-10	800/10110(00)	A701	2550	$3,232
					Total Re-obligations:	$303,342

The following funding which was obligated under the BASIC Mod. of this contract, should be deobligated and reobligated onto SSAI/NAS5-01008 under Mod. 5:

PCN		JON	APPN	BLI	OC	AMT
424-03271-000A	(1C)	423-228-11-19-05	01	A501	2550	($74,000)
					Total De-obligations:	($74,000)

Total obligations on Mod. 002: $3,283,325

As a result of the above, the total funds obligated to this contract under Mod. 2 is $3,283,325 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 5

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Three (3)	See Block 16C	See Page 2	

6. ISSUED BY	7. ADMINISTERED BY *(If other than Item 6)*
NASA's Goddard Space Flight Center Space Sciences Procurement Office, Code 216 Greenbelt, MD 20771	Loren M. Kruger Contract Specialist Code 216

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
Science Systems and Applications, Inc. Attn: Mr. Anoop Mehta 5900 Princess Garden Parkway, Suite 300 Lanham, MD 20706		9B. DATED *(SEE ITEM 11)*:
	X	10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220
CODE: / FACILITY CODE:		10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 3 & 4

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification, FAR Clause 52.232-22, Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to provide $4,676,367 in additional funding for continued performance under this contract.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James S. King Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY James S. King (Signature of Contracting Officer)	16C. DATE SIGNED 2/13/01

NSN 7540-01-152-8070 STANDARD FORM 30 (REV. 10-83)

1) Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 2)	BY	TO
Estimated Cost	$11,476,714	$4,329,969	$15,806,683
Award Fee (8%)	$918,137	$346,398	$1,264,535
TOTAL CPAF	$12,394,851	$4,676,367	$17,071,218

In accordance with the Contractor's electronic mail message dated February 13, 2001, the above funding carries the period of allotment through April 15, 2001.

2) All other terms and conditions remain unchanged.

3) See attached pages for the Accounting and Appropriation Data.

B/NC: 203 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
423-03123-000A	(1C)	423-428-45-22-06	801/20110(01)	A701	2550	100,000
423-03133-000A	(1C)	423-428-50-01-14	801/20110(01)	A501	2550	40,410
460-04602-000A	(1C)	695-784-12-47-78	801/20110(01)	B401	2529	12,469
471-04669-000A	(1C)	471-259-10-10-03	801/20110(01)	A501	2550	50,000
552-06031-000A	(1C)	552-251-30-07-01	801/20110(01)	A200	2550	40,000
552-06032-000A	(1C)	552-860-10-36-03	801/20110(01)	A501	2550	15,000
552-06034-000A	(1C)	552-039-02-03-80	801/20110(01)	B301	2572	10,000
552-06035-000A	(1C)	552-019-08-03-01	801/20110(01)	A501	2550	12,500
660-07977-000A	(1C)	661-785-20-20-02	801/20110(01)	A701	2550	35,000
660-07979-000A	(1C)	662-399-23-01-78	801/20110(01)	B401	2529	50,000
660-07984-000A	(1C)	662-399-33-01-78	801/20110(01)	B401	2529	160,000
660-07985-000A	(1C)	667-455-31-43-01	800/10110(00)	A701	2550	18,826
660-07985-000B	(1C)	667-455-31-44-01	800/10110(00)	A701	2550	18,893
660-07986-000A	(1C)	667-455-31-50-01	801/20110(01)	A701	2550	22,013
660-07986-000B	(1C)	667-455-31-21-01	801/20110(01)	A701	2550	66
681-08652-006A	(1C)	681-782-06-40-05	801/20110(01)	A501	2550	50,000
682-08652-007A	(1C)	682-370-18-35-78	800/10110(00)	B401	2529	1,089
690-09141-000A	(1C)	695-370-17-60-25	800/10110(00)	A501	2550	187
690-09141-000E	(1C)	696-370-17-01-02	800/10110(00)	A501	2550	2
690-09141-000F	(1C)	691-622-67-11-25	800/10110(00)	A501	2550	10
690-09141-000G	(1C)	693-624-06-83-25	800/10110(00)	A501	2550	12,960
690-09141-000H	(1C)	693-274-31-00-01	800/10110(00)	A501	2550	5
690-09141-000I	(1C)	693-896-50-01-25	800/10110(00)	A501	2550	66,500
690-09141-000J	(1C)	693-896-50-05-25	800/10110(00)	A501	2550	49,900
695-09147-000A	(1C)	695-370-20-02-78	801/20110(01)	B401	2529	20,000
695-09148-000A	(1C)	695-370-22-33-78	801/20110(01)	B401	2529	250,000
692-09150-000A	(1C)	692-370-16-55-78	801/20110(01)	B401	2529	33,743
690-09152-000A	(1C)	690-370-17-33-25	801/20110(01)	A501	2550	22,200
690-09152-000B	(1C)	695-626-30-11-25	801/20110(01)	A501	2550	175,000
690-09152-000C	(1C)	690-399-25-01-25	801/20110(01)	A501	2550	34,000
690-09152-000D	(1C)	690-212-50-80-25	801/20110(01)	A501	2550	14,000
690-09152-000E	(1C)	690-784-40-60-25	801/20110(01)	A501	2550	7,000
690-09152-000F	(1C)	690-853-12-32-25	801/20110(01)	A501	2550	12,300
690-09152-000G	(1C)	690-344-32-25-25	801/20110(01)	A501	2550	5,200
690-09152-000H	(1C)	690-784-10-44-25	801/20110(01)	A501	2550	6,300
690-09152-000I	(1C)	690-624-06-85-25	801/20110(01)	A501	2550	10,500
690-09152-000J	(1C)	690-624-06-82-25	801/20110(01)	A501	2550	12,700
690-09153-000A	(1C)	695-624-05-07-78	801/20110(01)	B401	2529	50,000
690-09153-000B	(1C)	695-624-05-08-78	801/20110(01)	B401	2529	40,000

B/NC: 203 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
690-09153-000C	(1C)	692-624-06-85-78	801/20110(01)	B401	2529	75,000
690-09153-000D	(1C)	692-370-03-04-78	801/20110(01)	B401	2529	30,000
690-09153-000E	(1C)	693-344-32-03-78	801/20110(01)	B401	2529	41,160
690-09153-000F	(1C)	696-370-16-30-78	801/20110(01)	B401	2529	30,000
690-09153-000G	(1C)	696-370-17-32-78	801/20110(01)	B401	2529	25,000
690-09153-000H	(1C)	695-370-17-60-78	801/20110(01)	B401	2529	87,000
690-09154-000A	(1C)	691-406-04-05-25	800/10110(00)	A501	2550	34,000
690-09154-000B	(1C)	693-406-04-04-25	800/10110(00)	A501	2550	29
690-09154-000C	(1C)	695-370-17-60-25	800/10110(00)	A501	2550	11
690-09154-000D	(1C)	695-624-05-07-25	800/10110(00)	A501	2550	12
690-09154-000E	(1C)	692-624-06-85-25	800/10110(00)	A501	2550	211
690-09154-000F	(1C)	691-622-67-13-25	800/10110(00)	A501	2550	30
690-09154-000G	(1C)	691-839-88-01-25	800/10110(00)	A501	2550	5
690-09154-000H	(1C)	690-212-50-80-25	800/10110(00)	A501	2550	1
690-09154-000I	(1C)	695-896-50-06-25	800/10110(00)	A501	2550	19,200
690-09154-000J	(1C)	696-344-14-04-25	800/10110(00)	A501	2550	17,209
690-09155-000A	(1C)	690-344-16-32-78	800/10110(00)	B401	2529	8,000
690-09155-000B	(1C)	690-344-16-80-78	800/10110(00)	B401	2529	2,800
690-09155-000C	(1C)	696-344-16-32-78	800/10110(00)	B401	2529	105,952
696-09156-000A	(1C)	696-344-16-80-25	800/10110(00)	A501	2550	30,173
902-10958-000A	(1C)	902-428-50-16-78	801/20110(01)	B401	2529	1,500,000
910-11327-000A	(1C)	900-631-30-01-01	801/20110(01)	A501	2550	253,000
910-11331-000A	(1C)	900-627-30-10-02	800/10110(00)	A501	2590	403
915-11756-000A	(1C)	915-730-10-60-10	800/10110(00)	A701	2550	23,841
923-12586-005A	(1C)	923-622-94-05-01	800/10110(00)	A501	2590	20,274
923-12586-006A	(1C)	923-622-94-05-05	800/10110(00)	A501	2590	8,219
923-12586-007A	(1C)	923-621-92-01-78	801/20110(01)	B401	2529	400,000
923-12614-001A	(1C)	923-291-07-05-01	800/10110(00)	A501	2590	1,315
923-12614-001B	(1C)	923-621-92-01-01	800/10110(00)	A501	2590	1,958
932-12924-000A	(1C)	932-751-10-10-78	801/20110(01)	B401	2529	181,700
934-13060-001A	(1C)	934-625-20-12-78	801/20110(01)	B401	2529	100,000
934-13060-001B	(1C)	934-625-20-31-78	801/20110(01)	B401	2529	100,000
934-13060-001C	(1C)	934-625-20-61-78	801/20110(01)	B401	2529	50,000
934-13062-000A	(1C)	934-332-41-41-78	801/20110(01)	B401	2529	60,000
971-13888-002A	(1C)	971-229-04-15-78	801/20110(01)	B401	2529	100,000
						4,765,276

B/NC: 203 PPC: KX

The following funding which was deobligated under Mod. 39 of SSAI/NAS5-99085, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
923-62611-007A	(1C)	923-622-94-05-01	800/10110(00)	A501	2590	46,735

The following funding which was deobligated under Mod. 162 of STX/NAS5-32350, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
423-03070-000A	(1C)	423-428-50-20-79	801/20110(01)	A501	2572	25,996
423-03068-000A	(1C)	423-428-50-01-14	801/20110(01)	A501	2550	3,288
423-03069-000A	(1C)	423-428-50-40-78	801/20110(01)	B401	2529	26,356
423-52973-000A	(1C)	423-428-50-20-79	800/10110(00)	B501	2572	4,716
					Total Re-obligations:	107,091

The following funding which was obligated under Mod. 1 of this contract, should be deobligated:

PCN		JON	APPN	BLI	OC	AMT
932-12920-000A	(1C)	931-656-75-01-78	801/20110(01)	B402	2529	(100,000)
660-07963-000B	(1C)	662-399-35-01-78	801/20110(01)	B401	2529	(21,000)
660-07965-000B	(1C)	667-399-33-01-18	801/20110(01)	A701	2550	(56,000)
660-07963-000A	(1C)	667-399-22-12-78	801/20110(01)	B401	2529	(9,000)
660-07965-000A	(1C)	667-399-50-01-18	801/20110(01)	A701	2550	(5,000)
660-07965-000A	(1C)	667-399-50-01-18	801/20110(01)	A701	2550	(5,000)
					Total De-obligations:	(196,000)

Total obligations on Mod. 003: 4,676,367

As a result of the above, the total funds obligated to this contract under Mod. 003 is $4,676,367 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 5

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Four (4)	See Block 16C	See Page 2	

6. ISSUED BY	7. ADMINISTERED BY *(If other than Item 6)*
NASA's Goddard Space Flight Center Space Sciences Procurement Office, Code 216 Greenbelt, MD 20771	Loren M. Kruger Contract Specialist Code 216

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
Science Systems and Applications, Inc. Attn: Mr. Anoop Mehta 5900 Princess Garden Parkway, Suite 300 Lanham, MD 20706		9B. DATED *(SEE ITEM 11)*:
	X	10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220
CODE: / FACILITY CODE:		10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 3 - 5

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification, FAR Clause 52.232-22, Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to provide $4,995,553 in additional funding for continued performance under this contract.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY [signature] (Signature of Contracting Officer)	16C. DATE SIGNED 3/19/01

1) Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 3)	BY	TO
Estimated Cost	$15,806,683	$4,625,512	$20,432,195
Award Fee (8%)	$1,264,535	$370,041	$1,634,576
TOTAL CPAF	$17,071,218	$4,995,553	$22,066,771

In accordance with the Contractor's electronic mail message dated March 15, 2001, the above funding carries the period of allotment through May 31, 2001.

2) All other terms and conditions remain unchanged.

3) See attached pages for the Accounting and Appropriation Data.

B/NC: 203 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
423-03143-000A	(1C)	423-428-45-22-02	801/20110(01)	A701	2550	$47,000
552-06036-000A	(1C)	552-274-11-01-01	800/10110(00)	A501	2550	$8,819
552-06037-000A	(1C)	552-782-06-71-02	801/20110(01)	A501	2550	$8,000
630-07881-000A	(1C)	630-755-07-01-01	801/20110(01)	A701	2624	$69,570
660-07989-000A	(1C)	662-212-65-27-78	801/20110(01)	B401	2529	$85,000
660-07994-000A	(1C)	660-399-34-01-03	801/20110(01)	A701	2550	$75,000
660-07997-000A	(1C)	662-399-34-01-78	801/20110(01)	B401	2529	$200,000
660-07999-000A	(1C)	661-370-10-04-02	801/20110(01)	A701	2550	$50,000
660-08004-000A	(1C)	661-370-17-37-02	801/20110(01)	A701	2550	$20,000
660-08005-000A	(1C)	660-344-03-07-02	801/20110(01)	A701	2550	$20,000
660-08006-000A	(1C)	661-740-50-11-03	801/20110(01)	A701	2550	$50,000
660-08008-000A	(1C)	661-740-20-02-05	801/20110(01)	A701	2550	$70,000
660-08009-000A	(1C)	661-785-20-33-04	801/20110(01)	A701	2550	$15,000
660-08016-000A	(1C)	662-399-36-10-78	801/20110(01)	B401	2529	$100,000
682-08652-008A	(1C)	682-344-17-38-02	801/20110(01)	A501	2550	$43,190
682-08652-009A	(1C)	682-370-23-11-78	801/20110(01)	B401	2529	$10,000
691-09157-000A	(1C)	691-274-35-00-25	801/20110(01)	A501	2550	$1,500
695-09160-000A	(1C)	695-624-07-02-25	800/10110(00)	A501	2550	$204,967
695-09160-000B	(1C)	690-624-07-02-25	800/10110(00)	A501	2550	$10,800
740-09724-000A	(1C)	743-740-50-14-03	801/20110(01)	A501	2550	$19,820
740-09724-000B	(1C)	743-740-50-17-03	801/20110(01)	A501	2550	$89,175
740-09724-000C	(1C)	564-740-50-19-02	801/20110(01)	A501	2550	$35,000
900-10814-010A	(1C)	900-627-30-20-02	800/10110(00)	A501	2590	$5,655
900-10814-012A	(1C)	900-771-10-04-20	801/20110(01)	A501	2590	$50,000
900-10814-013A	(1C)	900-631-30-20-10	801/20110(01)	A501	2590	$50,000
900-10814-013B	(1C)	900-631-30-20-10	801/20110(01)	A502	2590	$10,000
900-10814-013C	(1C)	900-622-33-36-03	801/20110(01)	A501	2590	$45,000
900-10814-014A	(1C)	900-292-03-01-20	801/20110(01)	A501	2590	$20,000
902-10959-000A	(1C)	902-428-50-22-78	801/20110(01)	B401	2529	$363,321
904-10793-004A	(1C)	904-229-01-04-78	801/20110(01)	B405	2529	$54,000
904-10794-011A	(1C)	904-291-05-01-02	801/20110(01)	A501	2590	$381,000
904-10794-012A	(1C)	904-291-05-01-02	800/10110(00)	A501	2590	$27,787
910-11170-008A	(1C)	910-665-14-01-78	801/20110(01)	B401	2529	$280,000
910-11171-003A	(1C)	910-419-04-10-01	800/10110(00)	A501	2590	$230,400
910-11337-000A	(1C)	900-225-11-12-10	800/10110(00)	A501	2550	$272

B/NC: 203 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
915-11759-000A	(1C)	915-624-06-81-78	801/20110(01)	B401	2529	$29,304
915-11759-000B	(1C)	915-344-34-04-78	801/20110(01)	B401	2529	$31,816
915-11759-000C	(1C)	915-730-10-60-78	801/20110(01)	B401	2529	$271,484
915-11762-000A	(1C)	915-730-10-60-78	801/20110(01)	B401	2529	$84,188
915-11763-000A	(1C)	915-624-06-67-78	801/20110(01)	B401	2529	$21,334
916-11338-000A	(1C)	916-621-72-01-78	801/20110(01)	B401	2529	$130,000
916-11342-000A	(1C)	916-621-72-01-01	800/10110(00)	A501	2550	$425
916-11887-001A	(1C)	916-622-57-01-78	800/10110(00)	B403	2529	$1,691
916-11900-001A	(1C)	916-359-02-01-78	801/20110(01)	B402	2529	$101,000
923-12568-001A	(1C)	923-622-94-15-01	801/20110(01)	A501	2590	$18,000
923-12568-001B	(1C)	923-291-01-91-05	801/20110(01)	A501	2590	$19,000
923-12568-001C	(1C)	923-622-96-04-01	801/20110(01)	A501	2590	$40,000
923-12568-001D	(1C)	923-622-96-03-01	801/20110(01)	A501	2590	$49,365
923-12586-009A	(1C)	923-259-20-25-01	800/10110(00)	A501	2590	$1
923-12586-009B	(1C)	923-621-92-01-01	800/10110(00)	A501	2590	$1
923-12586-009C	(1C)	923-622-94-07-02	800/10110(00)	A501	2590	$70
923-12614-002A	(1C)	923-291-05-14-02	801/20110(01)	A501	2590	$70,125
923-12614-002B	(1C)	923-291-07-53-03	801/20110(01)	A501	2590	$70,000
923-12614-003A	(1C)	923-291-07-22-78	801/20110(01)	B402	2529	$772,530
971-13887-001A	(1C)	971-229-04-15-78	801/20110(01)	B401	2529	$51,000
971-13887-001B	(1C)	971-622-82-62-78	801/20110(01)	B401	2529	$49,000
971-13900-000A	(1C)	971-622-49-35-78	801/20110(01)	B401	2529	$66,300
974-14135-000A	(1C)	974-229-04-04-78	801/20110(01)	B401	2529	$114,200
975-14232-000A	(1C)	975-621-15-40-01	801/20110(01)	A501	2590	$55,634
						$4,796,744

The following funding which was deobligated under Mod. 41 of SSAI/NAS5-99085, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
923-12613-003A	(1C)	923-291-07-22-78	801/20110(01)	B401	2529	$93,481
923-62635-020B	(1C)	923-622-92-12-78	800/10110(00)	B401	2529	$63,889
						$157,370

B/NC: 203 PPC: KX

The following funding which was deobligated under Mod. 164 of STX/NAS5-32350, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
696-58911-000A	(1C)	696-019-18-09-25	800/10110(00)	A5-01	69-2550	$2,546
690-58960-000C	(1C)	693-344-96-10-25	800/10110(00)	A5-01	69-2550	$3,048
690-58960-000F	(1C)	695-853-10-30-25	800/10110(00)	A5-01	69-2550	$24,037
690-58961-000I	(1C)	695-370-17-33-78	800/10110(00)	B4-01	69-2529	$11,808
						$41,439
					Total Re-obligations:	$198,809
					Total obligations on Mod. 004:	$4,995,553

As a result of the above, the total funds obligated to this contract under Mod. 004 is $4,995,553 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Five (5)	See Block 16C	See Page 2	

6. ISSUED BY	7. ADMINISTERED BY *(If other than Item 6)*
NASA's Goddard Space Flight Center Space Sciences Procurement Office, Code 216 Greenbelt, MD 20771	Loren M. Kruger Contract Specialist Code 216

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
Science Systems and Applications, Inc. Attn: Mr. Anoop Mehta 5900 Princess Garden Parkway, Suite 300 Lanham, MD 20706		9B. DATED *(SEE ITEM 11)*:
	X	10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220
CODE: / FACILITY CODE:		10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 3 - 4

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification, FAR Clause 52.232-22, Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return_____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to provide $2, 860,818 in additional funding for continued performance under this contract.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James S. King Contracting Officer Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 4/19/01

1) Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 4)	BY	TO
Estimated Cost	$20,432,195	$2,648,906	$23,081,101
Award Fee (8%)	$1,634,576	$211,912	$1,846,488
TOTAL CPAF	$22,066,771	$2,860,818	$24,927,589

Per a telecon with the Contractor on April 17, 2001, the above funding carries the period of allotment through June 30, 2001.

2) All other terms and conditions remain unchanged.

3) See attached pages for the Accounting and Appropriation Data.

B/NC: 203 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
423-03150-000A	(1C)	423-428-45-22-06	801/20110(01)	A701	2550	$110,709
423-03150-000B	(1C)	423-258-90-01-01	801/20110(01)	A701	2550	$200,000
423-03154-000A	(1C)	423-428-45-22-08	801/20110(01)	A701	2550	$200,000
423-03156-000A	(1C)	423-428-50-01-14	801/20110(01)	A501	2550	$166,000
423-03157-000A	(1C)	423-428-50-20-79	801/20110(01)	B501	2572	$405,004
472-04738-000A	(1C)	472-419-02-03-02	800/10110(00)	A701	2550	$8,188
552-06040-000A	(1C)	552-757-01-01-01	801/20110(01)	A501	2550	$100,000
600-07599-000A	(1C)	662-399-22-12-78	801/20110(01)	B401	2529	$344,000
696-09063-000A	(1C)	696-370-17-32-25	801/20110(01)	A501	2550	$75,000
740-09729-000A	(1C)	743-740-50-14-03	801/20110(01)	A501	2550	$35,000
740-09729-000B	(1C)	743-740-50-17-03	801/20110(01)	A501	2550	$40,000
740-09729-000C	(1C)	564-740-50-19-02	801/20110(01)	A501	2550	$25,000
902-10966-000A	(1C)	902-621-15-61-78	801/20110(01)	B401	2529	$65,000
902-10966-000B	(1C)	902-428-96-01-78	801/20110(01)	B401	2529	$60,000
902-10966-000C	(1C)	902-622-37-14-78	801/20110(01)	B401	2529	$50,000
910-11168-006A	(1C)	910-621-14-01-78	800/10110(00)	B401	2529	$80
915-11766-000A	(1C)	915-730-10-60-78	800/10110(00)	B401	2529	$53,284
915-11767-000A	(1C)	915-730-10-60-02	800/10110(00)	A701	2550	$8,104
915-11767-000B	(1C)	915-730-10-60-12	800/10110(00)	A701	2550	$1,473
915-11767-000C	(1C)	915-624-02-34-12	800/10110(00)	A701	2550	$302
915-11767-000D	(1C)	915-624-06-67-01	800/10110(00)	A701	2550	$26
915-11767-000E	(1C)	915-624-06-68-01	800/10110(00)	A701	2550	$317
915-11767-000F	(1C)	915-624-06-80-01	800/10110(00)	A701	2550	$47
915-11767-000G	(1C)	915-624-06-81-10	800/10110(00)	A701	2550	$48
916-11924-000A	(1C)	916-228-11-10-08	801/20110(01)	A501	2590	$87,400
916-11930-000A	(1C)	916-622-52-52-78	801/20110(01)	B401	2529	$20,000
910-11934-000A	(1C)	910-229-07-27-05	801/20110(01)	A501	2590	$21,000
923-12568-002A	(1C)	923-613-09-09-02	801/20110(01)	A502	2590	$191,734
923-12568-002B	(1C)	923-803-40-30-01	801/20110(01)	A501	2590	$50,000
923-12586-010A	(1C)	923-622-33-38-01	801/20110(01)	A501	2590	$200,000
923-12614-004A	(1C)	923-621-35-04-01	801/20110(01)	A501	2590	$125,000
932-12921-001A	(1C)	932-621-15-63-78	801/20110(01)	B401	2529	$34,000
971-13874-001A	(1C)	971-291-05-05-78	801/20110(01)	B401	2529	$30,000
975-14236-001A	(1C)	971-019-20-02-78	801/20110(01)	B401	2529	$90,000
975-14237-000A	(1C)	975-258-80-10-01	800/10110(00)	A501	2590	$470
						$2,797,186

B/NC: 203 PPC: KX

The following funding which was deobligated under Mod. 164 of SSAI/NAS5-32350, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
552-55830A	(1C)	552-860-10-36-03	800/10110(00)	A501	2550	$25,148
552-55851A	(1C)	552-359-04-05-05	800/10110(00)	A701	2590	$61,000
603-07730A	(1C)	662-399-22-12-78	801/20110(01)	B401	2529	$56,986
603-07730A	(1C)	662-399-22-12-78	801/20110(01)	B401	2529	$17,373

The following funding which was deobligated under Mod. 14 of Univ. Maryland, NCC5-494, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
923-62619-000A	(1C)	923-622-94-05-01	800/10110(00)	A701	4111	$75,000

The following funding which was deobligated under Mod. 108 Of SSAI/NAS5-31752 should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
923-12583-002A	(1C)	923-622-94-05-01	801/20110(01)	A501	2590	$56,641

Total Re-obligations: $292,148

The following funding which was obligated under Mod. 004 of this contract should be deobligated:

PCN		JON	APPN	BLI	OC	AMT
923-12614-003A	(1C)	923-291-07-22-78	801/20110(01)	B402	2529	($228,516)

Total deobligations on Mod. 005: ($228,516)

Total obligations on Mod. 005: $2,860,818

As a result of the above, the total funds obligated to this contract under Mod. 005 is $2,860,818 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 5

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Six (6)	See Block 16	See Page 2	

6. ISSUED BY	7. ADMINISTERED BY *(If other than Item 6)*
NASA's Goddard Space Flight Center Space Sciences Procurement Office, Code 216 Greenbelt, MD 20771	

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
Science Systems and Applications, Inc. Attn: Mr. Anoop Mehta 5900 Princess Garden Parkway, Suite 300 Lanham, MD 20706		9B. DATED *(SEE ITEM 11)*:
	X	10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220
CODE: / FACILITY CODE:		10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 3-5

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification – FAR Clause 52.232-22 – Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to provide $2,826,273 in additional funding for continued performance under this contract.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) James. S. King Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 5·15·01

1) Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 5)	BY	TO
Estimated Cost	$23,081,101	$2,616,919	$25,698,020
Award Fee (8%)	$1,846,488	$209,354	$2,055,842
TOTAL CPAF	$24,927,589	$2,826,273	$27,753,862

Per a telecon with the Contractor on May 15, 2001, the above funding carries the period of allotment through July 31, 2001.

2) All other terms and conditions remain unchanged.

3) See attached pages for the Accounting and Appropriation Data.

BANC: 203 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
423-03169-000A	(1C)	423-428-45-12-01	801/20110(01)	A701	2550	$338,000
423-03169-000B	(1C)	423-428-45-22-04	801/20110(01)	A701	2550	$28,000
423-03169-000C	(1C)	423-428-45-22-06	801/20110(01)	A701	2550	$273,000
423-03169-000D	(1C)	423-428-45-22-08	801/20110(01)	A701	2550	$176,310
423-03178-000A	(1C)	423-428-12-02-07	801/20110(01)	A501	2550	$60,000
423-03178-000B	(1C)	423-428-16-01-01	801/20110(01)	A501	2550	$305,000
423-03178-000C	(1C)	423-428-37-01-02	801/20110(01)	A501	2550	$24,000
541-05365-000A	(1C)	541-274-02-01-01	801/20110(01)	A200	2550	$15,000
552-06043-000A	(1C)	552-274-08-01-01	801/20110(01)	A501	2550	$15,000
660-08030-000A	(1C)	662-399-35-01-78	801/20110(01)	B401	2529	$77,278
660-08032-000A	(1C)	661-755-09-01-02	801/20110(01)	A701	2550	$65,000
660-08032-000B	(1C)	661-785-20-41-03	801/20110(01)	A701	2550	$5,000
660-08037-000A	(1C)	660-399-50-01-06	801/20110(01)	A701	2550	$40,000
660-08047-000A	(1C)	662-455-31-21-01	800/10110(00)	A501	2550	$10,881
682-08652-010A	(1C)	682-882-10-30-01	801/20110(01)	A501	2550	$7,000
690-09071-000A	(1C)	693-258-11-12-25	801/20110(01)	A501	2550	$45,000
690-09071-000B	(1C)	696-344-14-62-25	801/20110(01)	A501	2550	$45,000
690-09071-000C	(1C)	692-784-10-44-01	801/20110(01)	A501	2550	$43,300
690-09073-000A	(1C)	693-624-02-03-25	800/10110(00)	A501	2550	$32,569
690-09081-000A	(1C)	693-344-36-01-25	800/10110(00)	A501	2550	$56,080
690-09081-000B	(1C)	690-344-36-01-25	800/10110(00)	A501	2550	$4,200
690-09081-000C	(1C)	696-344-16-32-03	800/10110(00)	A501	2550	$15,395
690-09084-000A	(1C)	690-212-65-80-25	801/20110(01)	A501	2550	$12,300
690-09084-000B	(1C)	690-344-14-62-25	801/20110(01)	A501	2550	$7,276
690-09084-000C	(1C)	690-344-16-43-25	801/20110(01)	A501	2550	$6,200
690-09084-000D	(1C)	690-344-33-58-25	801/20110(01)	A501	2550	$5,300
690-09084-000E	(1C)	690-344-36-01-25	801/20110(01)	A501	2550	$5,100
690-09084-000F	(1C)	690-344-32-32-25	801/20110(01)	A501	2550	$4,100
690-09084-000G	(1C)	690-344-14-03-25	801/20110(01)	A501	2550	$4,900
690-09084-000H	(1C)	690-344-14-04-25	801/20110(01)	A501	2550	$2,600
690-09084-000I	(1C)	690-344-31-51-25	801/20110(01)	A501	2550	$1,100
690-09084-000J	(1C)	690-344-34-11-25	801/20110(01)	A501	2550	$1,900
900-10814-008A	(1C)	900-332-14-20-17	800/10110(00)	A501	2590	$25,000

B/NC: 203 PPC: KX

OBLIGATE (Continued):

PCN		JON	APPN	BLI	OC	AMT
900-10814-009A	(1C)	900-332-14-20-03	800/10110(00)	A501	2590	$22,666
900-10814-009B	(1C)	900-332-14-20-15	800/10110(00)	A501	2590	$38,000
900-10814-017A	(1C)	900-292-03-01-20	801/20110(01)	A501	2590	$20,000
904-10794-015A	(1C)	904-291-05-01-02	800/10110(00)	A501	2590	$2,764
904-10794-016A	(1C)	904-291-05-01-02	800/10110(00)	A501	2590	$1,375
916-11903-001A	(1C)	916-229-07-27-78	801/20110(01)	B403	2529	$19,081
916-11943-000A	(1C)	916-621-40-27-78	801/20110(01)	B401	2529	$425,000
922-12884-000A	(1C)	922-428-44-11-01	801/20110(01)	A501	2590	$200,000
923-12586-008A	(1C)	923-621-80-02-01	801/20110(01)	A501	2590	$250,000
923-12586-011A	(1C)	923-804-10-01-02	801/20110(01)	A501	2590	$20,000
923-12586-012A	(1C)	923-291-07-22-01	800/10110(00)	A501	2590	$10,000
923-12614-005A	(1C)	923-622-92-12-01	801/20110(01)	A501	2590	$60,000
923-12614-006A	(1C)	923-291-01-91-01	801/20110(01)	A501	2590	$40,000
930-13193-006A	(1C)	930-656-75-01-78	801/20110(01)	B401	2529	$50,000
932-12924-001A	(1C)	932-751-10-10-78	801/20110(01)	B401	2529	$26,760
						$2,942,435

The following funding which was deobligated under Mod. 165 of STX/NAS5-32350, should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
900-60837-018A	(1C)	900-622-33-11-03	800/10110(00)	A501	2590	$1,511
910-61359A(1C)	(1C)	900-627-30-10-01	800/10110(00)	A501	2550	$46,327
					Total reobligations on Mod. 006:	$47,838

The following funding which was obligated under Mod. 002 of this contract should be deobligated:

PCN		JON	APPN	BLI	OC	AMT
916-11900-000A	(1C)	916-359-02-01-78	801/20110(01)	B401	2529	($114,000)

B/NC: 203 PPC: KX

The following funding which was obligated under Mod. 005 of this contract should be deobligated:

PCN		JON	APPN	BLI	OC	AMT
423-03150-000B	(1C)	423-258-90-01-01	801/20110(01)	A701	2550	($50,000)

Total deobligations on Mod. 006: ($164,000)

Total obligations on Mod. 006: $2,826,273

As a result of the above, the total funds obligated to this contract under Mod. 006 is $2,826,273 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Seven (7)	See Block 16	See Page 2	

6. ISSUED BY	7. ADMINISTERED BY *(If other than Item 6)*
A's Goddard Space Flight Center Space Sciences Procurement Office, Code 216 Greenbelt, MD 20771	

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
Science Systems and Applications, Inc. Attn: Mr. Anoop Mehta 5900 Princess Garden Parkway, Suite 300 Lanham, MD 20706		9B. DATED *(SEE ITEM 11)*:
	X	10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220
CODE: / FACILITY CODE:		10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 3-4

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification – FAR Clause 52.232-22 – Limitation of Funds, Clause C.3 – Tracking and Reporting Requirements

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return_____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to update Attachment B – SOW Addendum, revise Clause C.4 - NEW AND MODIFIED FUNDING PROCEDURES and to increase the funded amount by $2,535,224.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Dawn M. Fountain Contracting Officer	
15B. CONTRACTOR/OFFEROR nature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Dawn M. Fountain (Signature of Contracting Officer)	16C. DATE SIGNED 6/19/01

1) Revise **Clause B.4 – Contract Funding** as follows:

	FROM (Mod 6)	BY	TO
Estimated Cost	$25,698,020	$2,347,430	$28,045,450
Award Fee (8%)	$2,055,842	$187,794	$2,243,636
TOTAL CPAF	$27,753,862	$2,535,224	$30,289,086

Per verbal direction from the Contractor on June 14, 2001, the above funding carries the period of allotment through August 21, 2001.

2) Replace the current version of **Clause C.4 - NEW AND MODIFIED FUNDING PROCEDURES** with the revised version in Attachment 1 of this modification.

3) Replace the current version of **Attachment B – Statement of Work (SOW) Addendum** with the updated version in Attachment 2 of this modification.

4) See attached pages for the Accounting and Appropriation Data.

5) All other terms and conditions remain the same.

Modification: Seven (7)

NC: 203 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
460-04612-000A	(1C)	460-784-10-43-78	801/20110(01)	B401	2529	$28,500
552-06042-000A	(1C)	552-263-10-85-01	801/20110(01)	A501	2590	$10,000
552-06048-000A	(1C)	552-274-09-01-01	801/20110(01)	A501	2550	$10,000
552-06050-000A	(1C)	552-757-01-01-01	801/20110(01)	A502	2550	$30,000
660-08051-000A	(1C)	662-440-08-01-78	801/20110(01)	B401	2529	$204,000
660-08051-000B	(1C)	667-344-10-07-78	801/20110(01)	B401	2529	$101
660-08054-000A	(1C)	667-440-08-01-78	801/20110(01)	B401	2529	$32,994
685-08652-013A	(1C)	685-757-01-01-01	801/20110(01)	A501	2550	$6,151
690-09086-000A	(1C)	692-370-03-04-78	801/20110(01)	B401	2529	$4,447
690-09086-000B	(1C)	696-344-13-91-78	801/20110(01)	B401	2529	$4,280
690-09086-000C	(1C)	633-212-62-10-78	801/20110(01)	B401	2529	$8,000
690-09089-000A	(1C)	690-399-25-01-25	801/20110(01)	A501	2550	$9,000
690-09089-000B	(1C)	695-626-30-11-25	801/20110(01)	A501	2550	$5,000
690-09089-000C	(1C)	690-344-13-91-25	801/20110(01)	A501	2550	$4,300
690-09089-000D	(1C)	690-344-32-03-25	801/20110(01)	A501	2550	$3,600
690-09089-000E	(1C)	690-344-32-30-25	801/20110(01)	A501	2550	$3,700
690-09089-000F	(1C)	690-344-33-52-25	801/20110(01)	A501	2550	$2,900
690-09089-000G	(1C)	690-344-33-53-25	801/20110(01)	A501	2550	$3,700
690-09089-000H	(1C)	690-344-35-51-25	801/20110(01)	A501	2550	$2,200
690-09089-000I	(1C)	690-399-25-01-25	801/20110(01)	A501	2550	$41,600
690-09089-000J	(1C)	691-839-88-01-25	801/20110(01)	A501	2550	$40,000
900-10814-020A	(1C)	900-627-30-20-02	800/10110(00)	A501	2590	$258
900-10814-021A	(1C)	900-627-30-20-02	800/10110(00)	A501	2590	$224
902-10972-000A	(1C)	902-428-50-16-78	801/20110(01)	B401	2529	$1,233,783
902-10972-000B	(1C)	902-622-95-28-78	801/20110(01)	B401	2529	$100,000
916-11356-000A	(1C)	916-621-72-01-78	801/20110(01)	B401	2529	$50,000
916-11357-000A	(1C)	916-621-72-01-01	800/10110(00)	A501	2590	$24
916-11357-000B	(1C)	900-627-30-10-01	800/10110(00)	A501	2590	$28
912-11554-000A	(1C)	912-621-15-42-04	801/20110(01)	A501	2590	$6,749
912-11554-000B	(1C)	912-621-15-63-06	801/20110(01)	A501	2590	$6,472
910-11948-000A	(1C)	910-229-07-27-78	801/20110(01)	B401	2529	$50,000
923-12614-008A	(1C)	923-291-07-22-19	801/20110(01)	A501	2590	$40,056
932-12924-002A	(1C)	932-625-20-31-78	801/20110(01)	B401	2529	$30,000

NC: 203 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
932-12924-002B	(1C)	932-621-15-63-78	801/20110(01)	B401	2529	$39,800
934-13060-002A	(1C)	934-625-20-12-78	801/20110(01)	B401	2529	$50,000
934-13060-002B	(1C)	934-625-20-31-78	801/20110(01)	B401	2529	$80,000
934-13060-002C	(1C)	934-625-20-61-78	801/20110(01)	B401	2529	$40,000
934-13063-002A	(1C)	934-332-41-41-78	801/20110(01)	B401	2529	$46,723
930-13193-010A	(1C)	935-622-37-14-78	801/20110(01)	B401	2529	$71,462
930-13193-010B	(1C)	935-258-90-90-78	801/20110(01)	B401	2529	$6,000
970-13734-000A	(1C)	971-622-49-35-78	801/20110(01)	B401	2529	$71,000
971-13887-002A	(1C)	971-229-04-15-78	801/20110(01)	B401	2529	$30,000
971-13888-003A	(1C)	971-229-04-15-78	801/20110(01)	B401	2529	$20,000
974-14153-000A	(1C)	974-229-04-04-78	801/20110(01)	B401	2529	$17,280
974-14153-000B	(1C)	974-621-35-04-78	801/20110(01)	B401	2529	$31,480
974-14153-000C	(1C)	974-621-30-04-78	801/20110(01)	B401	2529	$8,056
974-14153-000D	(1C)	974-229-01-04-78	801/20110(01)	B401	2529	$3,925
974-14155-000A	(1C)	974-622-33-34-78	801/20110(01)	B401	2529	$80,000
						$2,567,793

The following funding which was obligated under Mod. 006 of this contract should be deobligated:

PCN		JON	APPN	BLI	OC	AMT
690-09073-000A	(1C)	693-624-02-03-25	800/10110(00)	A501	2550	($32,569)

Total deobligations on ($32,569)

Total obligations on $2,535,224

As a result of the above, the total funds obligated to this contract under Mod. 007 is $2,535,224 .

C.4 NEW AND MODIFIED FUNDING PROCEDURES

As described in C.1, Scope of Work, the Contractor shall assume, at the start of the contract, the services described in Attachment B, SOW Addendum. Variations to the range of services shall be handled as follows:

(a) New Work Activity Plan (WAP) Funding Identification Procedures:

1. The Contractor may be approached to assist an activity(ies) not previously supported but within the scope of the contract.

2. The Contractor will generate a new 7-digit identification number using the following parameters:

- The first 3 digits represent the organization's Code requiring support; e.g., 931 would be for Code 931;

- The next 3 digits are a sequential numbering system, 001-999, assigned by the Contractor to the particular organization's work to date (e.g., if this is the 21st separate WAP for Code 931, the funding identification number is extended to be "931-021"). Once a number has been used once, it will never be used again. If 931-021 is used and then the WAP gets terminated, the Contractor will not re-use 931-021. Instead, the next WAP for Code 931 will be 931-022.

- The last digit is a data point used by the Government's electronic system. This number will not change during the life of the contract. Thus, the new WAP funding identification number would be 931-021-1.

3. The Contractor shall then prepare a general description of how it intends to support the work, generate a unique staffing plan for that work, along with the total estimated cost—from the planned start date through the remaining contract year and provide that documentation to the appropriate Resource Analyst (RA) for the funding organization. The Government will, in turn, use its own internal process to ensure that funds are available to support that work. The Government process includes concurrence, not of the contractor's proposed support but, of the associated cost to ensure that sufficient funds are available to support the activity, from:

- The Assigned Technical Representative (ATR), who is the funding organization's technical representative;
- Resource Analyst (RA) to verify that adequate funds are available for the work;
- The Organization's Division or Lab Chief
- The Contracting Officer's Technical Representative (COTR)

4. The Contracting Officer shall notify the Contractor, either verbally or in writing, that work may proceed.

(b) Modified Identification Numbers:

1. Occasionally, an established WAP will need adjustment. Should this occur, the process is the same as described in paragraph (a) above. The Contractor will modify Section 1: General Information, of the WAP, to add a line entitled, "Revision Number". The "Revision Number" line shall designate how many revisions have been made to the original WAP. The Contractor will keep a record of the original WAP and will be able to track the changes that have made per *each* revision.

2. The Contractor shall prepare a general description of how it intends to support the modified work and the effect to the original workload, if any, along with the modified staffing plan(s) and revised estimated cost(s). This documentation shall be delivered to the appropriate funding organization, and the same process and distribution as described in paragraph (a) above shall be followed.

(End of text)

Attachment 2
Contract NAS5-00220
Modification No. 7

ATTACHMENT B
Statement of Work Addendum
June 18, 2001

400-001-1 Cryogenics Laboratory Support
General Objectives This activity provides support for research and development in low temperature physics and Astrophysics. The major efforts of this work is the design, development, construction, and qualification testing of hardware for spacecraft, aircraft, ballooncraft, sub-orbital, and ground-based missions and; for Directors Discretionary Fund (DDF) programs. Additionally, software is developed to interface with test equipment for the purpose of data collection. Databases are generated for analysis and archival purposes. The specific support activities include cryogenic laboratory assistance, mechanical and electrical design, documentation, development, and testing; software coding and maintenance, and project collaboration and analysis with NASA scientists and engineers.

400-002-1 SWIFT Support Services
General Objectives The goal of this activity is the development of Cadmium Zinc Telluride (CZT) detectors (e.g. for the Burst Alert Telescope (BAT) instrument on the Swift spacecraft), including both software and hardware elements. Support includes fabrication and testing of instrument detector modules and electronics used for gamma ray astronomical observations, and in the design of instrument control systems for use in detector testing and operations including the software or firmware required to program them. All schedules and deliveries will be amended as required to meet the Swift Mission Schedule.

400-003-1 Propulsion Systems Support
General Objectives This activity supports the development of propulsion system spaceflight hardware, development of ground support equipment (GSE) and test equipment, and data collection and analysis; and also provides support for ongoing research and development (R&D) of propulsion systems and devices. Support includes preparation of the hardware, including fabrication and installation of the flight hardware for the propulsion subsystem of the attitude control system, electrical and mechanical interfaces and test setup; conducting the test under the guidance of an aerospace engineer; preparing computer interfaces; and assisting with data collection and reduction. Training certifications will be secured as required to perform tests, operations, or assemblies. Support interface meetings to determine or resolve issues related to launch site operations and test; and support launch site operations, test, preparations, and launch.

423-003-1 ESDIS Outreach Support and Science Data Plan
General Objectives Provide support to the ESDIS Science Operations Office in educating a broad range of users and potential users about the data available from the DAACs and other cooperating data centers particularly highlighting cross-DAAC syntheses. The task will also provide information on resources available to acquire and manipulate those data holdings. The Science Data Plan (SDP) activities will provide science and system engineering support for ESDIS efforts in the area of science data and external interface management.

423-004-1 Hierarchical Data Format (HDF) Outreach
General Objectives Provide additional functionality and maintenance for HDF-EOS and HDF to support Aura, Terra, and Aqua missions, and other ESDIS user communities such as ESIP federation. The work includes development and review of the plan for migrating HDF-EOS from HDF 4.1 to 5, the HDF-EOS vector data model, HDF & HDF-EOS tools support, data services, COTS evaluation and prototyping of HDF-EOS metadata using XML, and enhanced XML interoperability with COTS data bases. User support includes review and preparation of technical documents, development of engineering and design specification, software tools, testing and distribution of utilities to the user community via web, CD-ROMS, through conferences and workshops, and hands-on training of users. This also involves interaction with instrument teams, DAACs, ESDIS staff and global user community. User support also involves the planning and implementation of workshops to promote community outreach for the HDF-EOS and HDF5. It additionally involves the compilation of information on commercial software tools, development and testing software tools related to standards, and dissemination information through the WWW and by publishing CD-ROMs and professional representation at national and international conferences and workshops.

423-005-1 The MISR QA Data Management System
General Objectives Maintain, optimize, and enhance the MISR QA DMS during its first year of deployment.

423-006-1 ESDIS Network Prototyping Laboratory
General Objectives In May 1995, ESDIS created the ESDIS Network Prototyping Laboratory (ENPL), whose mission is to mitigate project risks and evaluate and integrate emerging network technologies in support of EOSDIS networks. Activities conducted under this task include maintaining an awareness of technical standards, participating in prototype experimentation, providing technical feedback to industry and academia, and performing demonstrations of technologies that are mature enough for integration into the production environment.

423-008-1 EDG Science and Operations Support
General Objectives Provide science/operations and sustaining engineering support, including metadata ingest and processing, metadata data content and management services, and system promotion services for the EDG system and the QP system. The task also provides development and operations support for the new guide system, the Expanded Valids Processing (EVP) tool, and software utilities required for supporting EDG science and operations functions.

423-010-1 Version 0 Extensions
General Objectives This task will perform activities to enhance and extend the EOS Data Gateway system to support the evolving needs of the EOSDIS Version 0 and ECS programs and of the CEOS Interoperability Experiment (CINTEX).

423-011-1 User Friendly Metadata (UFM)
General Objectives The ECS metadata is currently captured in the historical ODL format. In order to provide a more readable, understandable description of ECS metadata, a series of command line tools,

including the User Friendly Metadata Tool and the Metadata Check (MetCheck) tool have recently been developed. Current work activity includes routine enhancement and maintenance of the software, user support, and porting the command line UFM and MetaCheck tools into Java.

423-012-1 ESDIS Science Processing Support Office
General Objectives The objectives of this task are to 1) assist the ESDIS Project in monitoring the performance and operations of DAACs; 2) compile, analyze and disseminate science and resource requirement information for the ESDIS Project; 3) assist the DPRB and science community in defining and/or clarifying science processing requirements for EOSDIS; 4) support the Project Office to facilitate the resolution of EOSDIS-related science data processing issues; 5) and disseminate data product and baseline science requirements information to EOS Program and Project Offices and the user community.

423-014-1 EOSDIS Dynamic Query Support
General Objectives The primary re-focus of this task is technical analysis of requirements supporting navigation/discovery-based user interfaces that require metadata (preprocessed, direct, other). The team shall work with the ECHO development team to identify, define, design, and report architectures supporting best ways for ECHO to provide metadata to drive discovery-based user interface tools. Make current QP system available as an option on EDG, promote QP reuse at DAACs, and use to generate user feedback.

423-015-1 Earth Science Content Metadata Study
General Objectives The Phase-1 prototyping of Earth science metadata study project is to identify appropriate level-3 datasets and build a content-metadata "warehouse".

423-016-1 Subsetting Tools Support
General Objectives. The objective of this activity is to increase the availability of subsetting and related tools and services within the Earth science community. Proposed areas of emphasis for analysis and development include: Integration of the EOS Web-based subsetter (HEW) with the EOSDIS Core System (ECS), and establishment of a Subsetting Portal to provide a shared web presence for all Earth science subsetting tools.

470-001-1 Earth Explorers Outreach Products Support
General Objectives The contractor will provide the required services to develop and deliver graphics, CD ROMs and videos to the Earth Explorers program for various missions, which include: ESSP, UnESS, QuikTOMS and Triana. These graphics and CD ROMs will be utilized for media, education and public outreach as well as for web site development and information. The CD ROMs will contain animation, graphics, science and mission specific information. The task will involve the development of the appropriate media and reproductions as well as updates throughout the mission life cycle.

501-001-1 Machining Technology Support
General Objectives This work activity provides technicians to fabricate custom parts using standard and CNC machine tools, in the building 5 shop, or staff shops in the Advanced Manufacturing Branch. The technicians shall also perform precision assembly of mechanism and components during the development and flight stages of hardware fabrication and assembly.

631-001-1 IR/Sub-mm/Radio Astrophysics Data Mgmt
General Objectives The contractor shall perform the following tasks applicable to each of the NASA astrophysics missions COBE, IRAS, SWAS, MAP, ISO, SOFIA, MSX, SIRTF, 2MASS, and the ADC, and possibly others identified by the Government: A) Planning and Communicating. B) Interactions with Projects. C) Improving Data Management Processes. D) Data Processing. E) Data Archiving and Archive Quality Assurance. F) Archival Research Support. G) General Guidelines.

660-001-1 IMP Data Analysis
General Objectives This task will provide software development, production data processing and analytic support, program maintenance, documentation, and data base management support for the GSFC Laboratory for High Energy Astrophysics (LHEA) cosmic ray experiments aboard the IMPs-6, -7, and -8. Software development involves the implementation of IMP-8 software complying with Y2K, conversion of IMP-8 software from IBM version to Unix version, and creation of shell programs for processing and analyzing IMP-8 data. Maintenance includes the data base production logs, document software, procedure changes, project databases, backups, and software systems (data production, analysis and utility). This task will also provide the configuration management of cosmic ray libraries (source codes, executable programs, shell programs), documentations for any updated and new developed software (system designs, user`s guides, procedures guides), and updates the IMP-8 gain factors and Web pages on a regular basis.

660-002-1 ADP Support
General Objectives Develop and enhance the SkyView software package for searching, retrieving, and image display.

660-003-1 XTE Guest Observer Facility Support
General Objectives Support the RXTE GOF, including such things as writing and maintaining data analysis software, maintaining a public mission data archive, distribution of proprietary data to PIs, providing technical personnel and programming support for NASA Peer Reviews convened in response to RXTE NASA Research Announcements, and helping guest observers with data retrieval and analysis.

660-004-1 LHEA Technical Support
General Objectives The Contractor shall be responsible for the systems management of the LHEA computing environment including hardware and software for computers and networks.

661-001-1 InFOCuS Technical Support
General Objectives This activity provides technical support for electronic and mechanical hardware design and build and software development on International Focusing Optics Collaboration for uCrab Sensitivity (InFOCuS) Project. In addition this task will provide support to convert the GRIS gondola and pointing system for use as a proof of concept platform to carry the Gamma Ray Large Area Space Telescope (GLAST) single tower to altitude for initial testing, including modification software as required to accommodate GLAST.

661-002-1 GLAST LAT Modeling
General Objectives The contractor will conduct studies of the data system for GLAST, and specifically, the organization of the science data system on the ground. The contractor will provide support for the tools to be used for analyzing real and simulated data. The contractor shall develop astronomical performance simulations that will support the evaluation of the proposed GLAST instrument technologies relative to each other and to the science requirements of the mission.

661-003-1 CGRO Support
General Objectives The Contractor shall provide programming, analysis and science support for the functioning of the Compton Gamma Ray Observatory (CGRO) Science Support Center (COSSC) and for the support of Guest Investigators (GI`s).

661-004-1 Support Scientist for CGRO Project
General Objectives The contract will provide necessary personnel to support the CGRO Project Scientist with the following activities: - writing support for scientific papers- editing support of books and manuscripts - writing support for Project documents - assistance with Project related documents - general writing assistance with other programs such as Swift and GLAST

661-005-1 GLAST Science Support Center
General Objectives The Contractor shall provide support for the development of the GLAST Science Support Center, including trade studies and requirements analyses, and perform such programming and database efforts necessary to support them.

662-001-1 X-Ray Astrophysics Data Interpretation Support
General Objectives Provide modeling and data analysis support for data obtained from RXTE and other X-ray missions.

663-001-1 Code 660 Technical Support
General Objectives This activity provides support for the design, construction, analysis, and troubleshooting of electrical/electronic systems and sub-systems for spacecraft, high altitude balloons, sounding rockets, and ground support equipment. This includes support for the development of low noise analog electronics, digital circuits, control circuits, high and low voltage power supplies, bench test equipment, and GSE. The activity also provides technical support for electronic hardware fabrication and maintenance of circuits, systems, and test equipment for various projects and instruments within the Laboratory for High Energy Astrophysics (LHEA).

664-001-1 HEASARC Software Support
General Objectives This work activity supports data restoration, archival and distribution efforts for X-ray satellite data to be added to the HEASARC system.

664-002-1 Mission Specific Software Support
General Objectives This work activity supports development, testing and maintenance of HEASARC data analysis and mission operations software.

664-003-1 INTEGRAL Science Data Center Support
General Objectives This task supports the LHEA Office of Guest Investigator Programs (OGIP), NASA/GSFC. The contractor is expected to provide programming, analysis and science support for the HEASARC's participation in external data center teams. This participation includes, but is not limited to, data center teams for the INTEGRAL and XMM.

664-004-1 XTE SOC Software
General Objectives This work activity supports operations and planning activities at the SOF level, and also includes coordination of efforts between the other SOC elements.

664-005-1 INTEGRAL Software Development
General Objectives This work activity involves the development and testing of software in support of the INTEGRAL Spectrometer (SPI) experiment to be flown by ESA in 2002. Additional support to be performed includes participation in pre-launch instrument calibration activities, as well as participation in collaboration meetings where instrument specific policies and strategies are defined. The primary customers are the INTEGRAL Science Data Center (ISDC) and the Integral Data Analysis working group (ISDAG). This work activity also involves maintenance of the Transient Gamma Ray Spectrometer (TGRS) software that has been developed in previous task orders.

664-006-1 Konus Software Development [Closed effective 3/31/01]
General Objectives The Konus Software Development activity provides software development, maintenance, and operational support to the IOFFE/GSFC Konus project. Software has been written and is being used to generate a local data base of gamma-ray burst and background data, compatible with similar data from the BATSE and TGRS instruments. Data are also being copied on a daily basis to the Konus team in St. Petersburg, Russia.

664-007-1 GCN System Support [Closed effective 3/31/01]
General Objectives The contractor will assist with day-to-day operation of the GCN system, which will involve continual maintenance and enhancement for the GCN computers and programs.

664-008-1 Database and Web Support
General Objectives This work activity provides web programming development and maintenance support for online interfaces to HEASARC systems. Technical support is also provided for visiting and remote Guest Observers.

681-001-1 NGST Wave Front Control Testbed
General Objectives The work consist of three tasks: (1) the development of custom control code for the WCT testbed, and (2) experiment operation, conducting experiments on the WCT testbed in conjunction

with other members of the WCT team,and (3) assistance in interface with the NGST contractors, providing training on the WCT testbed and operations as necessary.

682-001-1 SDAC Visiting Scientist Support
General Objectives Provide logistical support and assistance with travel expenses (air fare, per diem, car rental costs, miscellaneous expenses) to scientists who travel to GSFC or other locations on business related to Solar Data Analysis Center (SDAC) activities, including activities supporting current and future space solar physics missions such as SOHO, TRACE, HESSI, Solar-B, STEREO, and SDO.

682-002-1 SOHO EIT Support
General Objectives This activity supports operations, data reduction, and data analysis for the Extreme Ultraviolet Imaging Telescope (EIT) and the Large Angle Spectrometric Coronagraph (LASCO) aboard the Solar and Heliospheric Observatory (SOHO). In addition, this activity supports planning operations for the TRACE SMEX mission.

682-003-1 Solar Data Analysis Center Support
General Objectives This activity supports the Solar Data Analysis Center (SDAC) in the archival and distribution of data from the Solar Maximum Mission (SMM), Compton Gamma-Ray Observatory (CGRO) Burst and Transient Source Experiment (BATSE), Yohkoh, GOES, SOHO, TRACE, and future space solar physics missions such as HESSI, Solar-B, STEREO, and SDO. Specific tasks include development of software for analysis of SDAC datasets; management of SDAC computer equipment; and provision of scientific and technical assistance to SDAC personnel and visiting scientists. This activity also supports analysis of comet observations obtained by the SOHO/LASCO instrument.

682-004-1 SOHO Science Operations and Logistics
General Objectives This activity ensures continuous uninterrupted real-time operations on the SOHO project by coordinating science observations, monitoring data flow, and scheduling interactive spacecraft activities. This activity also provides data management support to the Solar Ultraviolet Measurements of Emitted Radiation (SUMER) instrument team, provides administrative and logistics assistance to SOHO personnel, and produces video, print, and Web products to disseminate SOHO information to the world.

682-005-1 EIT Science
General Objectives Provide partial funding and travel support to visiting/remote scientists working on unsolicited scientific proposal research related to analysis of SOHO/EIT data. This task currently supports two part-time lead support scientists performing research at Tufts University, MA & NOAA Boulder, CO.

685-001-1 Code 685 IR Spectrometer Support
General Objectives This activity provides support for new Rapid Infrared/Visible Multi-Object Spectrograph (RIVMOS). This is a new spectrograph based on the 1024x1024 Aladdin InSb detector and the new micro shutter arrays developed at GSFC. The instrument will be tested on the 3.5 meter Apache Point Observatory (APO) at Cloudcroft, New Mexico in the summer of 2001. The instrument will be used as a technology showcase for the micro shutter devices for NGST.

690-001-1 Rocket-Flight Data Support
General Objectives The contractor will provide programming and analysis support for the reduction, analysis, and archiving of particles and fields data from NASA rocket and suborbital investigations and other data such as that from the UARS satellite. Support will also be provided in the preparation of papers, presentations, proposals, minutes from meetings, and mailing lists.

690-002-1 Design Support
General Objectives Prepare mechanical design drawings and illustrations for current and proposed missions using AutoCAD and Pro-Engineer software. Perform weekly checks of the ISO9000 web site for non-conformances and notify the project lead of any action needed.

690-003-1 ISTP Operations and Outreach
General Objectives Provide scientific, coordination, administrative programming and analysis expertise to address the requirements of the Science Planning and Operations Facility (SPOF) of the International Solar Terrestrial Physics (ISTP) Project. Coordinate and extend ISTP efforts in the areas of Education and Public Outreach.

690-004-1 LEP Property Database Support
General Objectives Will provide tracking of all equipment assigned to personnel in codes 690.0 through 696.0.

690-005-1 LEP Network and System Support
General Objectives Provides network administration, peripherals, desktop (PC & Mac), VMS, and Unix system administration support for the Laboratory for the Extraterrestrial Physics. Under this work order the contractor will provide support for administration of the local area network and for the system administration of the computers in the Laboratory for Extraterrestrial Physics.

691-001-1 Planetary Astronomy Programs Support
General Objectives This task provides scientific and technical support for planetary astronomy activities in the Laboratory for Extraterrestrial Physics (LEP), supports education and public outreach activities for the Near Earth Asteroid Rendezvous (NEAR) and other missions, provides technical and logistic planning for scientific workshops and conferences, and supports technology transfer initiatives between the LEP and the National Institute of Justice (NIJ).

692-001-1 Cassini/CAPS Software Engineering Support
General Objectives Provide software and system management support for the Cassini CAPS Investigation. Staff will provide software engineering support in the development and the enhancement of the Spectrum Analyzer Module (SAM) and Central Processing Unit-2 (CPU2) for the Cassini Plasma Science (CAPS) experiment. This will be achieved as follows: Develop SAM Modeling System. The Windows-based GUI integrated system will be developed using Interactive Data Language (IDL), IDL Widgets, and interfacing with C and Fortran routines. Modify data analysis applications to analyze CAPS data during Cassini Instrument Checkout #2(ICO #2). Support ICO-2, Jupiter Flyby, and ESB. Modify

SAM and CPU2 flight software for enhancements. The flight software will be written in Ada using Tartan Ada compiler version 5.1 on the Sun SPARCstation 5 running Solaris 2.5. Test the functionality of the SAM and CPU2 hardware and software. Maintain "GSFC Cassini CAPS" Web page. Perform daily routine system maintenance functions on the three Sun SPARCstations.

692-002-1 Magnetometer Data Processing

General Objectives Provide data processing, data management, software development, software support, and systems administration for the many ongoing magnetic field studies using data from the Voyager spacecraft. Provide software development and support for the magnetometer experiment carried onboard the ACE.

692-003-1 Ionospheric Data Support

General Objectives Provide software development, data library, and data presentation support for the processing and analysis of ionospheric data from top-side sounding instruments on-board ISIS 1, ISIS 2 (International Satellites for Ionospheric Studies) and Alouette-2 satellites, from RPI on IMAGE, and from related sounding rockets and various ground-based observatories.

693-001-1 IR Instrument Systems Support

General Objectives Provide post launch support for the Linear Etalon Imaging Spectral Array/Atmospheric Corrector (LEISA/AC) instrument aboard the Earth Observing 1 (EO-1) spacecraft, including IDL software development for data analysis and data processing. Provide support for upcoming field missions for airborne LEISA instrument. Provide support for upcoming 1024x1024 pixel Quantum Well Infrared Photo-detector (QWIP) as well as the future 4-color QWIP detector (both under development). This will include hardware/software development, as well as, field support. Provide support for upgrading the existing instruments.

693-004-1 Mars Global Surveyor Thermal Emission Spectrometer Support

General Objectives This task provides planning, software, and science support for the Arizona State University (ASU) MGS/TES instrument for the extended mission.

693-006-1 Planetary Atmospheres Modeling

General Objectives Provide programming support for developing radiative transfer models for planetary atmospheres and for analysis of planetary data, including MGS/TES data. Analysis activity includes conducting an ozone search, search for other minor constituents, and a CO2 Hot Band analysis.

695-001-1 Ulysses URAP Support

General Objectives This activity provides software development; data acquisition, processing, analysis, and archiving; system management; and administrative activities in support of the Unified Radio and Plasma Wave (URAP) instrument on the Ulysses spacecraft. The activity covers support of scientific activities involving URAP including preparation and presentation of papers at science meetings and in journals.

695-002-1 Geotail Data Support
General Objectives The GEOTAIL satellite was designed and developed by Institute of Space and Astronautical Science of Japan (ISAS) and the United States National Aeronautics and Space Administration (NASA). The Geotail satellite was launched in July 1992. The satellite remained in its initial orbit for approximately two and a half years; thereafter it was placed into a modified orbit where it will operate for the remainder of its lifetime. The entire database is being placed onto CD`s where the data is kept readily available. This WAP provides data base maintenance and technical support for the Geotail Instrument. Specific support will include data processing, maintaining logs, fulfillment of data requests for the ATR and other investigators, and data base support.

695-003-1 Magnetospheric Studies
General Objectives The general objectives of this work activity are to conduct theoretical and numerical studies on the wave generation processes and the plasma instabilities that contribute to the field topological changes and spatial redistribution of plasmas in the magnetotail. Task requires building appropriate theoretical models that can describe substorm onsets.

695-004-1 Planetary Missions Support
General Objectives Provide scientific, coordination, programming, data analysis, and engineering support to the Planetary Magnetospheres Branch of the LEP. Specifically, the task will focus on planetary missions support including, but not limited to, missions such as Mars Global Surveyor, Lunar Prospector, and Cluster-II.

695-005-1 WIND/WAVES Support
General Objectives This activity provides support to ingest, process, and archive WIND/WAVES data. Hardware (shared with the URAP data system) and system management support is provided. Data provided by the WIND CDHF is acquired daily and summary plots are generated. The raw data and summary plots are made available to WAVES investigators via a NFS capability. Programming support is provided for the procedures that acquire the raw data and generate the daily summary plots.

695-006-1 Multiplatform Onboard Computing
General Objectives Staff provide programming support and algorithm development for the Remote Exploration and Experimentation (REE) effort. Specific support includes preparing software and analyses for the project on applications of onboard high performance computing to multi platform missions. Researches into methods of automated data analyses and autonomous, intelligent instrument operation are also performed, particularly in the context of multi spacecraft missions.

695-007-1 Stereo Waves Support
General Objectives Provide programming support, including requirements analysis, design, implementation, test, and maintenance for software to support the development and eventual deployment of the Stereo/WAVES experiment on board the STEREO mission.

696-001-1 Electric Fields Instrument Support
General Objectives This activity provides engineering design, fabrication, testing, and field support for Code 696 electronics utilized on sounding rockets and spacecraft. This activity also supplies the software support to control electronics as well as to capture the data from these systems.

696-002-1 Electric Fields Science Support
General Objectives This task performs the reduction, analysis and presentation of data bearing on electric fields in the Earth`s ionosphere and magnetosphere. The data are acquired chiefly from electric field instruments on NASA Code 696 sounding rockets, the Fast Auroral Snapshot (FAST) and Polar Plasma Laboratory (Polar) satellites. However, data from other instruments, such as magnetometers, photometers and Langmuir probes, are also analyzed on occasion; and data may be obtained from other rockets or satellites. Modeling of physical processes or instrument behavior is also required on occasion.

696-004-1 WIND and IMP-8 Analysis Support
General Objectives This work activity supports several scientific investigations of planetary and interplanetary magnetic fields. The objective is to provide data processing, analytical, numerical analysis, and outreach support to the International Solar Terrestrial Physics (ISTP) magnetometer instrument teams for the WIND and IMP-8 spacecraft. Education and Public Outreach efforts are also supported to publicize team science activities.

696-005-1 Heliospheric Studies
General Objectives Provide computer software and data reduction analysis support for studies of heliospheric structures using data from the IMP-8 and WIND spacecraft. Data analysis may include other data sets as appropriate for specific studies.

696-006-1 TRIANA Plasmag [Closed effective 4/27/01]
General Objectives The objective of this work activity is to develop, support and maintain data reduction analysis software for studies of solar wind and solar and plasma physics using data from the Triana, WIND and IMP 8 spacecraft. It will also include software development for pre-launch ground calibration and instrument testing for Triana. Data analysis will be carried out in support of science research projects. In addition, the activity will provide and maintain all relevant documentation including web pages.

900-001-1 ISLSCP-II Support
General Objectives To support programming, processing, data acquisition and evaluation, and World Wide Web (WWW) planning efforts for the ISLSCP Initiative-II.

900-002-1 EOS Project Science Office Support
General Objectives This Activity provides logistical and scientific support for the Earth Observing System (EOS) Project Science Office. Staff members assist the EOS Project Science Office by providing both programmatic and technical support primarily in the area of Education Outreach.

900-003-1 MODIS Atmospheres Product Support
General Objectives Provide support for the maintenance of MODIS Joint Atmospheres product (MOD08) software. Support also includes development and maintenance of various WWW sites related to Code 900 activities and participation in workshops and retreats.

900-004-1 ESE Conference Support
General Objectives This activity provides the Earth Science Enterprise (ESE) NASA Headquarters scientific staff with support for ESE/EOS activities at scientific and non-traditional conferences and meetings (e.g. trade shows, state fairs, agricultural shows, insurance conventions).

900-005-1 ESE Education Program Lead Center Office Support
General Objectives Provide support for the Lead Center Office for ESE Education. This office has three primary areas: Formal Education, Informal Education, and Professional Development. Under this task the contractor will support the activities associated with all aspects that contribute to the success of these two organizations. These activities require expertise in working with various science and educational groups. Interpretation and translation of complex scientific concepts for general audiences is essential. Coordination and integration of ESE Education Program activities with the other NASA centers active in the Earth Science Enterprise will be a keystone for the success of the enterprise program

900-006-1 ESE Education Cross-Cutting Core Enabling Activities
General Objectives Provide support for the Lead Center Office for ESE Education. This office has three primary areas: Formal Education, Informal Education, and Professional Development. Under this task the contractor will support activities associated with all aspects that contribute to the success of these two organizations. These activities require expertise in working with various science and educational groups. Interpretation and translation of complex scientific concepts for general audiences is essential. Coordination and integration of ESE Education Program activities with the other NASA centers active in the Earth Science Enterprise will be a keystone for the success of the enterprise program.

900-007-1 ESE Education Program Conference Support Activities
General Objectives Support the Lead Center Office for ESE Education. This office has three primary areas: Formal Education, Informal Education, and Professional Development. Under this task the contractor will support the activities associated with all aspects of conference and workshop production as directed by ATR.

900-008-1 ESE Education Program Educational Product Replication, Distribution and Tracking
General Objectives Under this task the contractor will support activities associated with all aspects ESE Educational Products Distribution.

900-009-1 Special NASA HQ Requests Activities
General Objectives Support activities associated with all aspects of special NASA HQ presentations and other requests.

900-010-1 Earth Sciences Directorate Activities
General Objectives Provide support to Goddard's Earth Sciences Directorate Office. This office has responsibility for coordination of Education, Applications, and Outreach for the Code 900 science laboratories and for the design and implementation of other Earth science scientific and educational endeavors.

900-011-1 MODIS Ice Project Support

General Objectives Develop, analyze, modify and quality assure data from spaceborne sensors with emphasis on the EOS MODIS instrument. The principal focus will be on evaluation and application of snow and sea ice mapping algorithms and associated data products. Additional work may involve evaluating the performance characteristics of the MODIS instrument as they affect Level 1 data products, etc.

902-001-1 GSFC DAAC Science Data Support

General Objectives Provide science support to the Earth Science data products archived at the GSFC Distributed Active Archive Center (DAAC), and to data producers, data researchers, and other data users affiliated with the DAAC. The science disciplines to be supported will include Upper Atmosphere, Atmospheric Dynamics, Global Biosphere and Hydrology. Science support will be provided for the data from heritage and current earth science missions, in addition to relevant data sets from new missions and sources, as well as derived data sets. Science support shall also include development of web sites for access to and browsing of data products, development of value-added data products and special services, and representation of the GSFC DAAC at earth science conferences, workshops and science team meetings. A detailed list of objectives, milestones and deliverables shall be negotiated at activity start up and shall be renegotiated with the ATR at the end of the first semester of the fiscal year. Metrics will be maintained to assess work completed for each requirement and for evaluating the identified deliverables. These metrics will be factored into the overall score for the work activity.

902-002-1 DAAC Operational Support

General Objectives Provide operations support to the Earth Science datasets, data products, data analyses, data producers, data researchers, and other data users that comprise or are affiliated with the GSFC Distributed Active Archive Center (DAAC). Operations support will be provided for the data from current missions including MODIS, SeaWiFS, TRMM, UARS, TOMS, and AVHRR, in addition to relevant data sets from other missions, sources, and/or derived datasets. Operations shall support all computer systems, operational hardware, inventory, filling user requests and shipping of data and data products for the GSFC DAAC.

902-003-1 Global Change Master Directory and Earth Science Data

General Objectives Provide dataset and related Earth Science services descriptions and to make these descriptions available to scientists, students, educators, and policy makers through an online delivery system. Dataset descriptions are entered in the Directory Interchange Format (DIF) and services descriptions are entered in a related Services Entry Resources Format (SERF). The software system to support this objective provides a relational database to store dataset and services descriptions, software to load and extract information from the database, interfaces for users to access the information online, operational utilities, statistics generation, and software tools to assist in writing dataset and services descriptions. As the coordinating node of the CEOS International Directory Network (IDN) the GCMD software, database, and database content are distributed and installed worldwide at IDN nodes.

902-004-1 Global Change Data and Information (GCDIS) Support

General Objectives Provide support for GCDIS/DMWG meetings, workshops, and functions. Staff will identify new NASA Earth science data and resources and maintain NASA entries within the GCDIS database. Staff will interact with Federal agency representatives, participate in the design and modification of the GCDIS web page, participate in the evaluation and analysis of GCDIS projects, and

assist both GCDIS and GCMD in promoting Earth science information resources available from NASA and other Federal agencies. Staff will also provide support for the U.S. Department of Agriculture (USDA) and other collaborative NASA/GCMD projects concerned with agriculture, forest and hydrological systems. Support includes assisting agency staff and scientists in identifying global change-related data sets that can be described through the Global Change Master Directory (GCMD including identifying agriculture, forest, and hydrology data sets from national and international projects.

902-005-1 GSFC DAAC Software Development

General Objectives The contractor will provide systems engineering, systems administration, database administration, testing, and software development support to the DAAC, including software engineering and development for the operational systems of the DAAC.

902-006-1 GES DAAC EOS Mission Support

General Objectives Provide EOS Mission Support for the Earth Science missions, data sets, and data products supported by the GSFC Earth Sciences (GES) Distributed Active Archive Center (DAAC). Mission Support shall include activities performed directly and the coordination of Mission Support activities performed by the various groups comprising the GES DAAC. Mission Support shall include but not be restricted to the following activities: Metadata Publication, Data/Metadata Management, Earth Science Data Type (ESDT) Management, and Development and Maintenance for the data monitoring, subscription, metrics collection, and other tools and scripts used for Mission Support including upgrading and/or enhancing Terra mission tools for the upcoming Aqua mission. Mission Support activities shall also include Science Software Integration & Testing (SSI&T) for MODIS (Both Terra and Aqua missions) and AIRS as-well-as S/W engineering support for the S4P System for MODIS data processing and will also include on-demand subsetting of MODIS data. A detailed list of objectives, milestones and deliverables shall be negotiated at activity start up and shall be renegotiated with the ATR at the end of the first semester of the fiscal year. Metrics will be maintained to assess work completed for each requirement and for evaluating the identified deliverables. These metrics will be factored into the overall score for the work activity.

910-001-1 EOS Science News and Information Team

General Objectives The EOS Science News & Information team has responsibility for promoting newsworthy EOS research through the science media, and increasing the understanding of global change issues and awareness of the contribution of NASA's Earth Science Enterprise among the public. News team activities include Earth science research news mining, producing press releases, organizing press conferences and providing journalist resources, supporting EOS scientists and journalists at science conferences, and conducting science writers workshops to assist the media in producing accurate and thorough descriptions of newsworthy EOS research.

915-001-1 Mass Spectrometer Instrument Development Support

General Objectives SSAI shall provide the Atmospheric Experiment Branch (Code 915) with on-site scientific, engineering, software development, documentation and laboratory support required to design, fabricate, assemble, test, calibrate and deliver flight mass spectrometers and related instruments. In addition, SSAI shall provide post launch support for Branch mass spectrometer missions including cruise checkouts, laboratory simulations/calibrations and data analysis activities. The Branch is currently building, in-house, a neutral gas and ion mass spectrometer for the CONTOUR comet mission (flight

model delivery scheduled for September, 2001) and performing laboratory studies for a future Venus entry probe mission, a comet rendezvous mission and a Mars surface lander mission. Post launch support activities are required for the Gas Chromatograph Mass Spectrometer on the Cassini Huygens mission, the Ion and Neutral Mass Spectrometer on the Cassini Orbiter and the Neutral Mass Spectrometer on the Japanese NOZOMI Mars Orbiter mission.

915-002-1 Software Development for INMS, GCMS, NMS &NGIMS
General Objectives The contractor shall provide software development for spaceflight and ground support software for flight mass spectrometers including the Cassini Ion and Neutral Mass Spectrometer (INMS), the Cassini Huygens Probe Gas Chromatograph Mass Spectrometer (GCMS), the Nozomi Neutral Mass Spectrometer (NMS), the CONTOUR Neutral Gas and Ion Mass Spectrometer (NGIMS).

916-001-1 Solar Backscatter Ultraviolet (SBUV) Task
General Objectives This task will provide algorithm development, calibration analysis, and software support to the SBUV instruments flying on NASA and NOAA satellites.

916-002-1 Version 8 Algorithm
General Objectives This work activity supports the development of improved algorithms to be used with the TOMS and SBUV instruments to produce more accurate products. These algorithms will be used as the starting point for the OMI algorithm development effort.

916-003-1 OMI Software Development and Data Processing
General Objectives This task supports the OMI U.S. Science Team Leader for the Ozone Monitoring Instrument (OMI) in preparing algorithms and in the implementation of all other operational algorithms for the OMI instrument for data processing at GSFC.

916-004-1 Triana Project
General Objectives This work activity supports development of software (using TOMS products algorithms) to process Triana data and generate 5 science products (ozone, cloud reflectivity, aerosols, surface UV, and total column water).

916-005-1 TOMS and QuikTOMS Processing Support
General Objectives This work activity performs Earth Probe TOMS and QuikTOMS operational software development and maintenance; instrument operations and monitoring; data processing; validation and quality control of the products; and monthly archival of these data at the GSFC DAAC .

916-006-1 OMI Science Support
General Objectives This work activity provides guidance and oversight for the implementation and processing efforts of the US OMI Science Team, for the OMI Science Investigator Processing System (SIPS) and for the Version 8 algorithm development and reprocessing tasks.

916-007-1 Aura E&PO

General Objectives The EOS- Aura Project Science Office E&PO program supports a strong educational and public outreach effort through formal and informal education partnerships with organizations that are leaders in science education and communication. The goal of the program is to educate students and the public and to inform industry and policy makers about how the Aura mission will lead to a better understanding of the global environment and in particular atmospheric chemistry. In order to achieve this goal, the E&PO program also develops E&PO materials for a variety of audiences and works with NASA, Aura science instrument teams, the NASA Earth Observatory web site, and the atmospheric chemistry community. This activity will support the EOS-Aura Project Science office by coordinating all aspects of the Aura E&PO program including the requirements listed below.

922-001-1 OMI TLCF and SIPS Support

General Objectives This work activity supports the OMI TLCF and SIPS development environment, including hardware and software support for TLCF and SIPS-related computers and networks.

923-001-1 BOREAS Information System Support

General Objectives Complete the publication of the current BOREAS data sets on a set of CD-ROMs. Support the handling of BOREAS data set documents for release as NASA Technical Memoranda. Work with the science teams funded under the BOREAS Guest Investigator Program to acquire, process, document, and prepare the new data sets for publication and release to the ORNL DAAC.

923-002-1 SAFARI 2000 Support

General Objectives SFARI 2000 is an international science initiative in southern Africa that explores linkages between land and atmospheric processes, with particular emphasis on gas and aerosol emissions from various sources and the consequences of their deposition on biogeophysical and biogeochemical systems of the region. Support for SAFARI 2000 includes information gathering, CD-ROM development and planning.

923-004-1 AERONET Atmospheric Monitoring and Analysis

General Objectives Provide the technical support required to perform needed data quality checking, scientific analysis, instrument deployment, and instrument troubleshooting for the AERONET (Aerosol Robotic NETwork) project and related LBA investigation.

923-005-1 Landsat Project Science and Systems Engineering Approach

General Objectives This task supports the Landsat Project Scientist`s responsibility to ensure that the operation and performance of the Landsat 7 satellite and ground systems continue to meet the scientific requirements of the Landsat mission and to support the Project Scientist`s efforts to specify the system requirements and operational concepts for a follow-on mission. This task will also provide programming and analysis support related to the sensor calibration and characterization activities of the Landsat-7 Project Science Office.

923-006-1 MODLAND Validation Support
General Objectives The MODLAND validation coordinator will help organize and coordinate activities to validate MODLAND data products. This will include coordination of targeted tasks conducted by researchers representing GSFC, MODLAND Science Team Members, and EOS Validation Team members. It may also include aircraft planning, instrument sharing, data distribution coordination, and satellite image procurement, as well as liaisoning with other EOS mission teams, the CEOS Working Group for Cal/Val, EOS DAACs, NASA's CRSP and other members of the validation community. The coordinator works under the discretion of The MODIS Land Discipline Team Leader (Chris Justice) and the MODIS Land Validation NASA official (Jeff Privette).

923-007-1 LBA-Ecology Support
General Objectives This work activity provides primarily for Brazil in-country field experiment implementation assistance to the Large-Scale Biosphere-Atmosphere study in Amazonia and the LBA-Ecology Project Office.

923-008-1 LBA-Ecology Project Office Support
General Objectives The contractor shall provide LBA-Ecology Project Office support including administration and outreach, science support and coordination with the Science Team, and infrastructure and logistics development and implementation support for the Brazil-based research activities involving more than 45 multinational investigations in a variety of locations in South America. The contractor shall also continue the development of the LBA-Data Information System in coordination with personnel at ORNL.

923-009-1 GIMMS Support
General Objectives Support the data ordering, web site maintenance system administration for GIMMS facilities

923-010-1 Laser Induced Fluorescence Instrumentation and Data Analysis
General Objectives Support the completion of the research entitled, "Laser Induced Fluorescence for the Remote Assessment of the Relative Rate and Efficiency of Photosynthesis and Vegetation Changes Caused by Environmental Factors".

923-011-1 Landsat Data Continuity Mission (LDCM)
General Objectives Provide administrative support for the activities associated with the Landsat Continuity Mission (LCM)

930-001-1 Scientific Visualization Studio Support
General Objectives The objective of this task is to develop visualization systems, tools, and visual source materials in support of GSFC's Earth science research and outreach efforts.

930-002-1 Earth Science Visualization Support

General Objectives Develop the source material for visuals in support of the Earth Science Enterprise (ESE) education and outreach efforts. The source material generated by the SVS may be used by public affairs for broadcast to the media, by the scientists for presentation, as source material for videos, CD's, museum displays and web sites.

930-003-1 HPCC Visualization Support
General Objectives The objective of this task is to support HPCC project researchers with advanced data visualization capabilities through customized software development for the scientific community.

930-004-1 PARAMESH Development
General Objectives The objective of this task is to design, develop, and implement parallel computation techniques appropriate for modeling of space and astrophysical plasmas, as well as other physical fluids, and to provide computational science consulting support to the project manager of the ESS/HPCC effort. As part of this program, PARAMESH is an adaptive mesh refinement software package developed to support the parallelization of various numerical codes used in Earth and space science research initiatives.

933-001-1 Outreach and Technical Resource
General Objectives 1) Provide technical writing, editing, and graphics for the World Wide Web, publications, and reports on all branches of the Earth and Space Data Computing Division (ESDCD), highlighting their progress and accomplishments; 2) Develop World Wide Web sites that accurately present the Division, its capabilities, and its major projects; 3) Establish and maintain a Division-wide technical library and a digital technical library.

933-002-1 GLOBE Scientific Visualization Support
General Objectives This task will provide support for visualizations of GLOBE (Global Learning and Observations to Benefit the Environment) student and reference data.

934-001-1 HPCC Outreach Support
General Objectives This task documents and reports the scientific and technical activities of the NASA HPCC Program's Earth and Space Sciences (ESS) Project, including supported Investigator Teams. Investigator team members reside at many research institutions located around the US. Report formats include but are not limited to, articles for NASA and external publications, news releases, promotional material, video, and the World Wide Web. The audience includes NASA management, the Federal multi-agency HPCC community, Congress, the public, K-12 educators and students, the Investigator team members, and the Investigator team institutions. Scientific training and understanding is required in order to comprehend the work and vision of the investigators and to perform technical writing largely unassisted. Travel to perform face-to-face interviews is sometimes required.

934-002-1 TRL Systems Support
General Objectives The major objectives for this task are to develop and maintain the "Education Mall" (EdMall) web site as well as the Education Department web site. This EdMall web site work involves preparing and cataloging all of the educational resources found at GSFC for quick and easy access by education community. The Education Department's Web site contains events, programs, activities, and other items of educational importance.

935-001-1 Voyager Software and Data Analysis
General Objectives This work activity provides support for processing and analysis of cosmic ray data from the Voyager and IMP-8 spacecraft.

970-001-1 Oceanography Outreach Support
General Objectives Provide oceanography outreach and web support for both NASA Headquarters as well as GSFC's Laboratory for Hydrospheric Processes.

971-001-1 Sea-Ice and Climate Studies
General Objectives Provide programming expertise to address the requirements of the Sea Ice/Climate Studies task.

971-002-1 Polar Air-Sea-Ice Processes
General Objectives Support the development and validation of sea ice algorithms for the EOS Aqua Advanced Microwave Satellite Radiometer (AMSR) and the validation of the DMSP Special Sensor Microwave Imager Sounder (SSMIS) sea ice algorithms; and support research designed to better understand the relationship among the Earth's climate system components: the ocean, the cryosphere and the atmosphere on seasonal, interannual, and decadal time scales.

971-003-1 Remote Sensing Studies of Sea Ice
General Objectives Provide programming and analysis support to meet objectives for several Earth Science Enterprise projects. The major objective is to develop, refine, and validate sea ice algorithms that will be used for generating standard products from EOS-AMSR and ADEOS-AMSR data.

974-001-1 MODIS Snow Project Support
General Objectives Develop, validate, modify and quality assure the snow mapping and sea ice mapping algorithms for the EOS Moderate Resolution Spectroradiometer (MODIS) and support the project at conferences and scientific meetings. Develop appropriate web pages to provide information on the snow and sea ice products as well as educational activities.

974-002-1 Coupled Land-Atmosphere System
Perform scientific analysis to improve the understanding and prediction of mesoscale land-surface energy and moisture fluxes, focusing on the influence of heterogeneous terrestrial hydrologic processes on the coupled land-atmosphere system using three dimensional numerical atmospheric simulation modeling.

975-001-1 ESTAR and Lightning Research
General Objectives Reduction and analysis of ESTAR data, including development of appropriate software.

975-002-1 Radar Design and Data Analysis

General Objectives The contractor will evaluate methods for using a spaceborne radar to measure rain intensities. This includes three Tropical Rainfall Measuring Mission (TRMM) Precipitation Radar (PR) processing algorithms including: - 2A-21: Determines radar reflectivity from the Earth's surface and uses it to measure the path attenuation when the radar beam passes through a rainstorm - 3A-25: Computes monthly statistics for numerous PR quantities, gridded in latitude-longitude boxes- 3A-26: Estimates rain rate statistics by computing a fit to the monthly probability distribution function for rainrate within latitude-longitude boxes

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2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Eight (8)	See Block 16	See Page 2	

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9A. AMENDMENT OF SOLICITATION NO.

9B. DATED *(SEE ITEM 11)*:

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10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220

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10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

N/A

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification – Clause B.5 – Award Fee for Service Contracts (1852.216-76) (March 1998)

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

This modification adjusts the contract for the amount of award fee earned December 1, 2000 through May 31, 2001 (Period 1). The Government has determined that an award fee of $1,288,150 (85% of available award fee) has been earned for this period.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		Loren M. Kruger, Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Loren M. Kruger (Signature of Contracting Officer)	16C. DATE SIGNED 7/11/01

1. Clause B.3 – ESTIMATED COST AND AWARD FEE – is modified as follows:

	FROM (Basic)	BY	TO
Estimated Cost	$189,433,836	$0	$189,433,836
Award Fee Earned	$0	$1,288,150	$1,288,150
Maximum Award Fee Available	$15,154,706	$1,515,470.60	$13,639,235.40
TOTAL	$204,588,542	($227,320.60)	$204,361,221.40

2. Clause B. 5 - AWARD FEE FOR SERVICE CONTRACTS , is revised to read as follows:

The contractor can earn award fee from a minimum of zero dollars to the maximum of $13,639,235.40 during the term of the contract.

A net amount of $1,288,150 shall be paid to the Contractor for award fee upon execution of this modification by the Contracting Officer.

3. All other terms and conditions of the contract remain unchanged.

(End of Modification #8)

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Nine (9)	See Block 16	See Page 2	

6. ISSUED BY
NASA's Goddard Space Flight Center
Space Sciences Procurement Office, Code 216
Greenbelt, MD 20771

7. ADMINISTERED BY *(If other than Item 6)*

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*
Science Systems and Applications, Inc.
Attn: Mr. Anoop Mehta
5900 Princess Garden Parkway, Suite 300
Lanham, MD 20706

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED *(SEE ITEM 11)*:

X

10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220

10B. DATED *(SEE ITEM 13)*: December 1, 2000

CODE: FACILITY CODE:

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 3-4

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification – FAR Clause 52.232-22 – Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to increase the funded amount by $2,438,486.

Accordingly:

See Continuation Sheet

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Dawn M. Fountain Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Dawn M. Fountain (Signature of Contracting Officer)	16C. DATE SIGNED 7/19/01

1) Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 7)	BY	TO
Estimated Cost	$28,045,450	$2,257,857	$30,303,307
Award Fee (8%)	$2,243,636	$180,629	$2,424,265
TOTAL CPAF	$30,289,086	$2,438,486	$32,727,572

Per a telecon with the Contractor on July 19, 2001, the above funding carries the period of allotment through **September 19, 2001**.

2) All other terms and conditions remain unchanged.

3) See attached pages for the Accounting and Appropriation Data.

B/NC: 215 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
471-04678-000A	(1C)	471-259-10-10-03	801/20110(01)	A501	2550	$65,000
552-06045-000B	(1C)	552-251-30-07-01	801/20110(01)	A501	2590	$15,000
552-06051-000A	(1C)	552-263-10-83-05	801/20110(01)	A501	2550	$30,000
552-06052-000A	(1C)	552-757-01-01-01	801/20110(01)	A503	2550	$40,000
552-06053-000A	(1C)	662-019-20-28-01	801/20110(01)	A501	2550	$40,000
660-08059-000A	(1C)	667-740-50-03-78	801/20110(01)	B401	2529	$235,545
660-08059-000B	(1C)	662-212-65-27-78	801/20110(01)	B401	2529	$95,777
682-08652-012A	(1C)	682-370-18-35-78	801/20110(01)	B401	2529	$12,728
690-09088-000B	(1C)	690-344-13-91-25	801/20110(01)	A501	2550	$2,000
690-09088-000C	(1C)	691-344-31-27-25	801/20110(01)	A501	2550	$22,880
690-09088-000D	(1C)	695-624-03-02-25	801/20110(01)	A501	2550	$24,800
690-09088-000E	(1C)	695-624-05-07-25	801/20110(01)	A501	2550	$18,400
690-09088-000F	(1C)	695-853-12-32-25	801/20110(01)	A501	2550	$20,000
690-09088-000G	(1C)	693-344-32-32-25	801/20110(01)	A501	2550	$6,000
690-09088-000H	(1C)	695-370-17-60-25	801/20110(01)	A501	2550	$54,000
690-09088-000I	(1C)	691-344-37-04-25	801/20110(01)	A501	2550	$2,000
690-09088-000J	(1C)	690-370-17-34-25	801/20110(01)	A501	2550	$7,800
690-09092-000A	(1C)	696-622-96-04-25	801/20110(01)	A501	2550	$60,000
690-09097-000A	(1C)	696-622-96-04-78	801/20110(01)	B401	2529	$100,000
690-09098-000A	(1C)	694-329-10-20-25	801/20110(01)	A501	2550	$181,805
690-09100-000A	(1C)	695-370-17-33-25	801/20110(01)	A501	2550	$13,970
690-09100-000B	(1C)	696-370-10-02-25	801/20110(01)	A501	2550	$3,477
690-09100-000C	(1C)	695-624-05-07-25	801/20110(01)	A501	2550	$100,000
690-09101-000A	(1C)	695-370-17-33-78	801/20110(01)	B401	2529	$6,033
690-09101-000B	(1C)	695-370-17-60-78	801/20110(01)	B401	2529	$2,903
690-09101-000C	(1C)	690-258-11-12-78	801/20110(01)	B401	2529	$12,852
690-09101-000D	(1C)	633-370-28-30-78	801/20110(01)	B401	2529	$24,000
900-10814-023A	(1C)	900-622-33-36-03	801/20110(01)	A501	2590	$25,000
902-10974-000A	(1C)	902-622-96-22-78	801/20110(01)	B401	2529	$60,000
904-10794-017A	(1C)	904-291-05-01-02	801/20110(01)	A501	2590	$100,000
904-10794-020A	(1C)	904-291-05-01-02	800/10110(00)	A501	2590	$8,501
910-11170-013A	(1C)	910-665-14-01-78	801/20110(01)	B401	2529	$250,000
910-11170-015A	(1C)	910-665-14-01-78	801/20110(01)	B401	2529	$37,000

B/NC: 215 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
910-11170-018A	(1C)	910-665-14-01-78	801/20110(01)	B4-01	2529	$184,000
923-12586-014A	(1C)	923-622-87-47-01	801/20110(01)	A501	2590	$260,551
923-12586-015A	(1C)	923-622-94-05-01	800/10110(00)	A501	2590	$14,620
930-13193-008A	(1C)	933-370-20-03-78	801/20110(01)	B401	2529	$70,773
932-12921-002A	(1C)	932-622-07-04-78	800/10110(00)	B401	2529	$8,013
932-12924-003A	(1C)	932-751-10-10-78	801/20110(01)	B401	2529	$150,000
971-13887-003A	(1C)	971-622-96-13-78	800/10110(00)	B401	2529	$37
971-13913-000A	(1C)	971-622-24-47-78	801/20110(01)	B401	2529	$25,000
974-14158-000A	(1C)	974-622-96-05-78	801/20110(01)	B401	2529	$21,500
974-14159-000A	(1C)	974-622-33-34-78	801/20110(01)	B401	2529	$28,000
974-14159-000B	(1C)	975-622-33-34-78	801/20110(01)	B401	2529	$3,500
974-14159-000C	(1C)	975-258-70-13-78	801/20110(01)	B401	2529	$7,000
974-14159-000D	(1C)	544-226-11-15-78	801/20110(01)	B401	2529	$5,000
975-14242-000A	(1C)	975-755-09-01-01	801/20110(01)	A501	2590	$2,931
975-14242-000B	(1C)	975-755-09-01-07	801/20110(01)	A501	2590	$90
						$2,458,486

The following funding which was obligated under Mod. 005 of this contract should be deobligated from this contract and reobligated onto SSAI / NAS5-01008 / Mod. 11:

PCN		JON	APPN	BLI	OC	AMT
916-11930-000A	(1C)	916-622-52-52-78	801/20110(01)	B401	2529	($20,000)

Total deobligation/reobligation on Mod. 009: ($20,000)

Total obligations on Mod. 009: $2,438,486

As a result of the above, the total funds obligated to this contract under Mod. 009 is $2,438,486 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Ten (10)	See Block 16		

6. ISSUED BY
NASA's Goddard Space Flight Center
Space Sciences Procurement Office, Code 216
Greenbelt, MD 20771

7. ADMINISTERED BY *(If other than Item 6)*

8. NAME AND ADDRESS OF CONTRACTOR
(No., street, county, State and ZIP Code)
Science Systems and Applications, Inc.
Attn: Mr. Anoop Mehta
5900 Princess Garden Parkway, Suite 300
Lanham, MD 20706

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED *(SEE ITEM 11)*:

X

10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220

CODE:	FACILITY CODE:

10B. DATED *(SEE ITEM 13)*:
December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Pages 3-4

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification – FAR Clause 52.232-22 – Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to increase the funded amount by $1,653,989.

Accordingly:

See Continuation Sheets

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Dawn M. Fountain Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Dawn M. Fountain (Signature of Contracting Officer)	16C. DATE SIGNED 8/21/01

1. Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 9)	BY	TO
Estimated Cost	$30,303,307	$1,531,471	$31,834,778
Award Fee (8%)	$2,424,265	$122,518	$2,546,783
TOTAL CPAF	$32,727,572	$1,653,989	$34,381,561

Per a telecon with the Contractor on August 21, 2001, the above funding carries the period of allotment through **October 22, 2001**.

2. See attached pages for the Accounting and Appropriation Data.

3. All other terms and conditions remain unchanged

NAS5-00220
M. ification: Ten (10)

B/NC: 215 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
423-03206-000A	(1C)	423-428-45-12-11	801/20110(01)	A502	2550	$262,300
423-03211-000A	(1C)	423-428-50-01-14	801/20110(01)	A501	2550	$53,000
474-04829-000A	(1C)	574-359-01-21-78	801/20110(01)	B401	2529	$42,000
474-04829-000B	(1C)	574-757-01-01-78	801/20110(01)	B401	2529	$19,800
474-04829-000C	(1C)	410-287-15-29-78	801/20110(01)	B401	2529	$19,200
660-08064-000A	(1C)	660-440-08-01-01	801/20110(01)	A701	2550	$40,000
660-08067-000A	(1C)	661-740-20-02-05	801/20110(01)	A701	2550	$5,000
660-08080-000A	(1C)	662-399-23-01-78	801/20110(01)	B401	2529	$19,000
682-08652-014A	(1C)	681-839-50-38-01	800/10110(00)	A701	2550	$144,322
682-08652-014B	(1C)	681-839-50-33-01	800/10110(00)	A701	2550	$293
682-08652-015A	(1C)	630-370-18-30-01	801/20110(01)	A701	2550	$40,845
685-08652-016A	(1C)	685-757-01-01-01	801/20110(01)	A501	2550	$2,346
690-09102-000A	(1C)	693-258-11-12-25	801/20110(01)	A501	2550	$30,827
690-09102-000B	(1C)	667-865-10-06-01	801/20110(01)	A501	2550	$30,000
690-09102-000C	(1C)	690-624-05-01-25	801/20110(01)	A501	2550	$5,700
[illegible]09102-000D	(1C)	690-624-06-82-25	801/20110(01)	A501	2550	$4,300
690-09106-000A	(1C)	693-624-06-82-25	800/10110(00)	A501	2550	$2,588
690-09106-000B	(1C)	695-370-20-02-01	800/10110(00)	A501	2550	$20
690-09106-000C	(1C)	695-622-96-03-01	800/10110(00)	A501	2550	$500
690-09106-000D	(1C)	691-865-10-07-25	800/10110(00)	A501	2550	$1
690-09106-000E	(1C)	695-626-30-11-25	800/10110(00)	A501	2550	$1
690-09106-000F	(1C)	691-332-18-01-25	800/10110(00)	A501	2550	$5,000
902-10977-000A	(1C)	902-428-50-16-78	801/20110(01)	B401	2529	$153,902
904-10793-009A	(1C)	904-229-04-04-78	801/20110(01)	B405	2529	$28,000
904-10794-025A	(1C)	904-291-05-01-02	801/20110(01)	A501	2590	$68,000
916-11371-000A	(1C)	916-665-14-01-78	801/20110(01)	B401	2529	$5,411
923-12586-017A	(1C)	923-621-92-01-78	801/20110(01)	B401	2529	$98,707
923-12586-018A	(1C)	923-291-01-91-15	800/10110(00)	A501	2590	$82
923-12586-018B	(1C)	923-291-07-22-01	800/10110(00)	A501	2590	$350
923-12586-018C	(1C)	923-291-07-22-15	800/10110(00)	A501	2590	$457
923-12586-018D	(1C)	923-621-90-03-01	800/10110(00)	A501	2590	$200
923-12586-019A	(1C)	923-621-92-01-78	801/20110(01)	B401	2529	$43,339
923-12614-009A	(1C)	923-622-96-05-01	800/10110(00)	A501	2590	$39,412
923-12614-010A	(1C)	923-291-07-22-78	801/20110(01)	B401	2529	$33,579
923-12614-011A	(1C)	923-622-92-12-01	801/20110(01)	A501	2590	$2,790
[illegible]0-13193-012A	(1C)	930-891-20-01-78	801/20110(01)	B401	2529	$6,339

B/NC: 215 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
930-13193-012B	(1C)	930-891-30-01-78	801/20110(01)	B401	2529	$5,000
932-12921-003A	(1C)	932-631-30-01-78	801/20110(01)	B401	2529	$240,000
932-12921-004A	(1C)	932-622-96-01-78	801/20110(01)	B401	2529	$8,000
932-12921-006A	(1C)	932-627-30-10-78	800/10110(00)	B401	2529	$3,000
934-13060-003A	(1C)	934-625-20-61-78	801/20110(01)	B401	2529	$10,000
974-14161-000A	(1C)	974-229-01-04-78	800/10110(00)	B401	2529	$44,497
975-14243-000A	(1C)	975-258-80-10-78	800/10110(00)	B401	2529	$9,703
975-14244-000A	(1C)	975-258-80-10-78	801/20110(01)	B401	2529	$100,000
						$1,627,811

The following funding which was deobligated under Mod. 109 of SSAI / NAS5-31752 should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
900-60837-016A	(1C)	900-627-30-20-12	800/10110(00)	A501	2590	$7,606

The following funding which was deobligated under Mod. 49 of SSAI / NAS5-99085 should be reobligated onto this contract:

PCN		JON	APPN	BLI	OC	AMT
923-62611-004A	(1C)	923-622-94-05-01	800/10110(00)	A501	2590	$6,596
923-12585-004A	(1C)	923-621-82-80-01	800/10110(00)	A501	2590	$120
923-12613-006G	(1C)	923-291-01-90-01	800/10110(00)	A501	2590	$1,856
923-12613-007D	(1C)	923-229-01-04-10	800/10110(00)	A501	2590	$10,000

Total reobligations from other contracts: $26,178

Total obligations under this Modification: $1,653,989

^s a result of the above, the total funds obligated to this contract under Mod. 010 is
,653,989 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT	1. CONTRACT ID CODE	PAGE(S)
		1 of 4

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Eleven (11)	See Block 16		

6. ISSUED BY	7. ADMINISTERED BY *(If other than Item 6)*
NASA's Goddard Space Flight Center Space Sciences Procurement Office, Code 216 Greenbelt, MD 20771	

8. NAME AND ADDRESS OF CONTRACTOR *(No., street, county, State and ZIP Code)*		9A. AMENDMENT OF SOLICITATION NO.
Science Systems and Applications, Inc. Attn: Mr. Anoop Mehta 5900 Princess Garden Parkway, Suite 300 Lanham, MD 20706		9B. DATED *(SEE ITEM 11)*:
	X	10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220
CODE:	FACILITY CODE:	10B. DATED *(SEE ITEM 13)*: December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) by acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Pages 3 & 4

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification – FAR Clause 52.232-22 – Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this modification is to increase the funded amount by $2,231,719.

Accordingly:

See continuation sheets

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Dawn M. Fountain Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Dawn M. Fountain (Signature of Contracting Officer)	16C. DATE SIGNED 9/18/01

1. Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 10)	BY	TO
Estimated Cost	$31,834,778	$2,066,406	$33,901,184
Award Fee (8%)	$2,546,783	$165,313	$2,712,096
TOTAL CPAF	$34,381,561	$2,231,719	$36,613,280

Per an email from the Contractor on September 17, 2001, the above funding carries the period of allotment through **November 12, 2001**.

2. See attached pages for the Accounting and Appropriation Data.

3. All other terms and conditions remain unchanged

B/NC: 215 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
423-03232-000A	(1C)	423-428-16-01-01	801/20110(01)	A501	2550	20,000
580-07127-000A	(1C)	588-322-40-20-05	801/20110(01)	A201	2590	9,811
602-07627-000A	(1C)	661-370-10-04-01	801/20110(01)	A501	2550	15,770
602-07627-000B	(1C)	661-344-96-98-02	801/20110(01)	A501	2550	38,000
602-07627-000C	(1C)	661-785-20-37-03	801/20110(01)	A501	2550	33,000
630-07924-000A	(1C)	602-370-25-01-02	801/20110(01)	A701	2590	40,000
682-08652-017A	(1C)	682-370-18-35-78	801/20110(01)	B401	2529	116,277
685-08652-018A	(1C)	685-757-01-01-01	801/20110(01)	A501	2550	4,755
690-09109-000A	(1C)	696-370-17-32-01	800/10110(00)	A501	2550	110
690-09109-000B	(1C)	695-370-17-60-01	800/10110(00)	A501	2550	90
690-09109-000C	(1C)	692-344-14-02-03	800/10110(00)	A501	2550	616
690-09109-000D	(1C)	692-344-14-30-03	800/10110(00)	A501	2550	1,797
690-09109-000E	(1C)	692-212-65-80-03	800/10110(00)	A501	2550	758
690-09109-000F	(1C)	692-624-06-85-01	800/10110(00)	A501	2550	357
690-09109-000G	(1C)	693-344-36-08-03	800/10110(00)	A501	2550	533
690-09109-000H	(1C)	695-370-20-02-03	800/10110(00)	A501	2550	1,518
690-09109-000I	(1C)	695-624-06-87-03	800/10110(00)	A501	2550	8,868
690-09109-000J	(1C)	695-624-06-86-03	800/10110(00)	A501	2550	591
690-09110-000A	(1C)	695-626-30-11-01	800/10110(00)	A501	2550	10
690-09110-000B	(1C)	695-370-22-33-03	800/10110(00)	A501	2550	3,473
690-09110-000C	(1C)	695-370-16-13-03	800/10110(00)	A501	2550	30
690-09110-000D	(1C)	695-344-32-01-03	800/10110(00)	A501	2550	288
690-09110-000E	(1C)	696-370-17-01-03	800/10110(00)	A501	2550	15
690-09110-000F	(1C)	696-344-14-04-03	800/10110(00)	A501	2550	1,211
690-09110-000G	(1C)	696-344-16-80-03	800/10110(00)	A501	2550	1,000
690-09110-000H	(1C)	696-880-04-01-01	800/10110(00)	A501	2550	1,239
690-09110-000I	(1C)	692-370-28-20-01	800/10110(00)	A501	2550	5,792
690-09111-000A	(1C)	693-258-11-12-25	801/20110(01)	A501	2550	10,000
690-09111-000B	(1C)	693-624-05-01-25	801/20110(01)	A501	2550	34,000
904-10793-010A	(1C)	904-229-04-04-78	801/20110(01)	B405	2529	16,319
900-10814-026A	(1C)	900-631-30-20-10	801/20110(01)	A503	2590	167,000
900-10814-026B	(1C)	900-631-30-20-10	801/20110(01)	A504	2590	31,000
900-10814-026C	(1C)	900-631-30-20-10	801/20110(01)	A505	2590	78,000
900-10814-026D	(1C)	900-631-30-20-10	801/20110(01)	A506	2590	13,000
902-10978-000A	(1C)	902-019-18-18-78	801/20110(01)	B401	2529	16,821
902-10978-000B	(1C)	902-428-50-16-78	801/20110(01)	B401	2529	50,759

NAS5-00220
Modification: Eleven (11)

B/NC: 215 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
902-10978-000C	(1C)	902-428-50-22-78	801/20110(01)	B401	2529	22,873
902-10978-000D	(1C)	902-665-15-11-78	801/20110(01)	B401	2529	40,000
916-11173-013A	(1C)	916-621-25-23-21	801/20110(01)	A501	2590	17,192
916-11373-000A	(1C)	916-621-72-01-78	801/20110(01)	B401	2529	75,000
915-11775-000A	(1C)	915-730-10-60-78	800/10110(00)	B401	2529	13,079
915-11776-000A	(1C)	915-730-10-60-02	800/10110(00)	A701	2550	30,507
915-11776-000B	(1C)	915-730-10-60-11	800/10110(00)	A701	2550	8,260
915-11777-000A	(1C)	915-730-10-60-78	801/20110(01)	B401	2529	350,000
923-12568-003A	(1C)	923-622-96-04-01	801/20110(01)	A502	2590	6,931
923-12568-003B	(1C)	923-622-96-10-01	801/20110(01)	A501	2590	50,100
923-12568-003C	(1C)	923-622-96-12-01	801/20110(01)	A501	2590	35,000
923-12568-003D	(1C)	923-622-96-03-01	801/20110(01)	A503	2590	9,403
923-12586-020A	(1C)	923-622-94-05-01	801/20110(01)	A501	2590	21,313
923-12586-020B	(1C)	923-622-87-47-01	801/20110(01)	A501	2590	229,212
923-12586-021A	(1C)	923-621-92-01-78	801/20110(01)	B401	2529	94,553
923-12586-022A	(1C)	923-621-80-01-01	801/20110(01)	A501	2590	7,500
923-12586-022B	(1C)	923-621-80-02-01	801/20110(01)	A501	2590	242,500
923-12614-013A	(1C)	923-622-96-19-01	801/20110(01)	A501	2590	5,000
923-12614-013B	(1C)	923-622-88-06-01	801/20110(01)	A501	2590	3,875
923-12614-013D	(1C)	923-622-96-10-01	801/20110(01)	A501	2590	8,000
923-12614-014A	(1C)	923-622-96-18-78	801/20110(01)	B401	2529	30,000
923-12640-012A	(1C)	923-622-94-07-23	801/20110(01)	A501	2590	55,211
931-12929-000A	(1C)	932-291-05-18-78	801/20110(01)	B401	2529	20,000
971-13874-002A	(1C)	971-622-83-36-78	801/20110(01)	B401	2529	24,134
971-13874-002B	(1C)	971-622-82-62-78	801/20110(01)	B401	2529	10,000
971-13924-000A	(1C)	971-229-04-15-78	801/20110(01)	B401	2529	12,105
971-13924-000B	(1C)	971-621-35-12-78	801/20110(01)	B401	2529	37,895
974-14174-000A	(1C)	974-229-01-04-78	801/20110(01)	B401	2529	22,268
975-14249-000A	(1C)	975-621-15-05-01	801/20110(01)	A501	2590	27,000
						2,231,719

As a result of the above, the total funds obligated to this contract under Mod. 011 is $2,231,719 .

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE(S)
	1 of 3

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. *(If applicable)*
Twelve (12)	See Block 16		

6. ISSUED BY
NASA's Goddard Space Flight Center
Space Sciences Procurement Office, Code 216
Greenbelt, MD 20771

7. ADMINISTERED BY *(If other than Item 6)*
Dawn Fountain
301 286-3815 (T)
301 286-1773 (F)

8. NAME AND ADDRESS OF CONTRACTOR
(No., street, county, State and ZIP Code)
Science Systems and Applications, Inc.
Attn: Mr. Anoop Mehta
5900 Princess Garden Parkway, Suite 300
Lanham, MD 20706

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED *(SEE ITEM 11)*:

X

10A. MODIFICATION OF CONTRACT/ORDER NO: NAS5-00220

CODE:

FACILITY CODE:

10B. DATED *(SEE ITEM 13)*:
December 1, 2000

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or a amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATA SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA *(If required)*

See Page 2

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 42.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
X	D. OTHER (Specify type of modification and authority) Unilateral Modification – FAR Clause 52.232-22 – Limitation of Funds

E. IMPORTANT: Contractor [X] is not, [ ] is required to sign this document and return _____ copies to be issued office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject mater where feasible.)

The purpose of this modification is to increase the funded amount by $779,442.

Accordingly:

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLED OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Dawn M. Fountain Contracting Officer	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY Dawn M. Fountain (Signature of Contracting Officer)	16C. DATE SIGNED 9/21/01

NSN 7540-01-152-8070

STANDARD FORM 30 (REV. 10-83)

1. Revise Clause B.4 – Contract Funding as follows:

	FROM (Mod 11)	BY	TO
Estimated Cost	$33,901,184	$721,687	$34,622,871
Award Fee (8%)	$2,712,096	$57,735	$2,769,831
TOTAL CPAF	$36,613,280	$779,422	$37,392,702

Per an email from the Contractor on September 21, 2001, the above funding carries the period of allotment through **November 26, 2001**.

2. See attached pages for the Accounting and Appropriation Data.

3. All other terms and conditions remain unchanged

B/NC: 215 PPC: KX

OBLIGATE:

PCN		JON	APPN	BLI	OC	AMT
423-03242-000A	(1C)	423-428-50-40-78	801/20110(01)	A501	2529	$22,890
602-07703-000A	(1C)	696-622-96-04-78	801/20110(01)	B401	2529	$12,400
602-07703-000B	(1C)	696-622-96-05-78	801/20110(01)	B401	2529	$50,000
602-07704-000A	(1C)	696-622-96-04-82	801/20110(01)	B201	3116	$4,600
602-07705-000A	(1C)	696-622-96-05-25	801/20110(01)	A501	2550	$290,000
602-07705-000B	(1C)	696-622-96-06-25	801/20110(01)	A501	2550	$249,200
602-07705-000C	(1C)	696-622-96-04-25	801/20110(01)	A501	2550	$12,811
602-07705-000D	(1C)	696-622-96-04-01	801/20110(01)	A501	2550	$81
902-10979-000A	(1C)	902-258-90-01-78	801/20110(01)	B401	2529	$60,000
902-10979-000B	(1C)	902-622-95-28-78	801/20110(01)	B401	2529	$40,000
916-11383-000A	(1C)	916-622-96-67-01	801/20110(01)	A501	2550	$27,069
916-11384-000A	(1C)	916-621-72-01-78	801/20110(01)	B401	2529	$21,393
923-12614-019A	(1C)	923-622-96-10-01	801/20110(01)	A501	2590	$7,133
923-12614-019B	(1C)	923-622-96-19-01	801/20110(01)	A501	2590	$1,845
923-12614-019C	(1C)	923-622-96-21-01	801/20110(01)	A501	2590	$40,000
						$839,422

The following funding which was obligated under Mod. 003 of this contract should be deobligated:

PCN		JON	APPN	BLI	OC	AMT
660-07984-000A	(1C)	662-399-33-01-78	801/20110(01)	B401	2529	($60,000)

Total deobligations: ($60,000)

Total obligations: $779,422

As a result of the above, the total funds obligated to this contract under Mod. 012 is $779,422 .